S 90L512
435
APR 13 1990
NS 1.18: 38
398
(Social)
ORIGINAL
COMPLETED

federal funds for research and development: fiscal years 1988, 1989, and 1990

volume xxxviii

surveys of science resources series
national science foundation

detailed statistical tables

NSF 90-306

federal funds for research and development: fiscal years 1988, 1989, and 1990

volume xxxviii

surveys of science resources series
national science foundation

detailed statistical tables

NSF 90-306

I

Suggested Citation

National Science Foundation, *Federal Funds for Research and Development: Fiscal Years 1988, 1989, and 1990*, Volume XXXVIII, NSF 90-306, Detailed Statistical Tables (Washington, D.C., 1990).

Telephonic Device for the Deaf

The National Science Foundation (NSF) has Telephonic Device for the Deaf (TDD) capability which enables individuals with hearing impairment to communicate with the Division of Personnel and Management for information relating to NSF programs, employment, or general information. The TDD number is (202) 357-7492.

II

contents

	Page
General Notes	v
Section:	
A. Technical Notes	1
B. Federally Funded Research and Development Centers	7
C. Detailed Statistical Tables	11
D. Cross-Reference Guide to Detailed Statistical Tables	103

III

general notes

The tables in this publication have been derived from the survey of Federal Funds for Research and Development, Volume XXXVIII. This survey covered a later and more detailed classification of research and development (R&D) programs in the 1990 Federal budget than the data that appeared in "Special Analysis J: Research and Development," issued in January 1989 as one of the documents of the *Budget of the United States Government, Fiscal Year 1990*. The data in these detailed statistical tables show R&D funding levels as reported by 96 Federal agencies in March through August 1989. All agencies with R&D programs were covered.

R&D totals in these tables are given in both outlays and obligations. The R&D obligation data are further distributed by character of work, performer, field of science/engineering (for research but not development), and Federal R&D support by State. Obligations for research performance at universities and colleges by fields of science/engineering are also shown, as are R&D plant data.

The amounts reported for each year of this survey include the obligations or outlays incurred in that year, regardless of when the funds may have been authorized, appropriated, or received by an agency, and regardless of whether the funds are identified in an agency's budget specifically for research, development, or R&D plant.

In the tables, data for 1988 are considered to be actual since they represent virtually completed transactions. Data for 1989 and 1990 are estimated since they do not represent final actions. The timing of the Federal Funds survey coincided with the third quarter of fiscal year (FY) 1989; therefore, the amounts reported for 1989 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 1990 represent administration budget proposals that had not been acted on. The effects of later authorization, appropriation, deferral, and apportionment actions will be reflected in later surveys of this series.

Respondent judgment is often necessary in classifying the data. Most agency R&D programs must be separated by agency respondents from other, larger programs because they are not identified as budget-line items. R&D programs, once identified, must then be further subdivided into the survey categories: Basic research, applied research, development, performers, and fields of science/engineering. Over the years, however, the participating agencies have developed increasing skill and consistency in meeting the survey requirements and their interaction with the National Science Foundation staff have considerably increased the reliability of the data.

Sometimes agencies revise their reporting concepts, making revisions in the current data that are important enough to warrant revisions of prior-year data. Therefore, for trend comparisons, use only the historical data contained in section C (tables 35A through 46), rather than the data published in previous volumes in the Federal Funds for R&D series.

Data for this survey are available on 5-1/4" double-sided diskettes suitable for use on an IBM-compatible personal computer. Persons interested in gaining access to the data on diskettes should contact the NSF Diskette Service, RDS Sytems, Inc., 6110 Executive Boulevard, Suite 1050, Rockville, Md. 20852, (301) 984- 1989.

Inquiries relating to Federal Funds for Research and Development, Volume XXXVIII, should be directed to the Government Studies Group of the National Science Foundation (NSF), Division of Science Resources Studies, Washington, D.C. 20550. Telephone: (202) 634-4636.

section a

technical notes

scope and method

During the period March through August 1989 a total of 33 Federal agencies and their subdivisions—96 individual respondents—submitted data in response to the Annual Survey of Federal Funds for Research and Development, Volume XXXVIII, conducted by NSF and distributed in February 1989. In all but one case the data received from the agencies were reported as obligations and outlays incurred, or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for R&D activities. The exception was the National Aeronautics and Space Administration (NASA), for which the same kinds of transactions were reported in terms of budget plan, which approximates obligations.

Many Federal agencies also provided R&D data at an earlier date to the Office of Management and Budget (OMB) for inclusion in "Special Analysis J: Research and Development" in *The Budget of the United States Government, Fiscal Year 1990*. This was one of the initial budget documents presented to the Congress in January 1989. The R&D data in the agency submissions to OMB and to the NSF Federal Funds survey were based on the same definitions and are reconcilable. The Federal Funds survey collects information from all R&D supporting agencies; these include smaller R&D support agencies which are not covered by "Special Analysis J," and are classified by performer and more detailed categories.

definitions

The definitions are essentially unchanged from prior Federal Funds surveys.

1. An **agency** is an organization of the Federal Government whose principal executive officer reports to the President. The Library of Congress, however, whose chief officer reports to the Congress, is also included in the survey. **Subdivision** refers to any organizational unit of a reporting agency, such as a bureau, division, office, or service.

2. **Obligations and outlays** reported should be consistent with figures shown for FYs 1988, 1989, and 1990 appearing in *The Budget of the United States Government, Fiscal Year 1990*.

   Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

   Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated.

   Obligations and outlays cover all transactions that occurred in FY 1988, and those estimated for 1989 and 1990. The data should include all Federal funds available to an agency that the agency received or expects to receive, from direct appropriations, trust funds, and special account receipts, corporate income, or other sources, including funds appropriated to the President.

   The amounts shown for each year should reflect obligations or outlays for that year regardless of when the funds were originally authorized or received, and regardless of whether or not they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

   Each agency should include in the reporting of obligations or outlays the amounts transferred to other agencies for support of R&D. The receiving agencies are

not to report funds transferred to them. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for work performed for an agency in foreign countries should include all funds available to the agency for this purpose, including funds separately appropriated for special foreign currency programs.

3. **Research, development, and R&D plant** include all direct, incidental, or related costs resulting from, or necessary to, performance of R&D, and costs of R&D plant as defined below, regardless of whether the R&D are performed by a Federal agency (intramurally) or performed by private individuals and organizations under grant or contract (extramurally). R&D exclude routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

a. **Research** is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

In **basic research** the objective of the sponsoring agency is to gain fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.

In **applied research** the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized and specific need may be met.

b. **Development** is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

c. **Demonstration** activities that are part of research or development (i.e., that are intended to prove or to test whether a technology or method does, in fact, work) should be included. Demonstrations intended primarily to make information available about new technologies or methods should not be included.

d. **R&D plant** (R&D facilities and fixed equipment, such as reactors, wind tunnels, and particle accelerators) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant category are expendable or movable equipment (e.g., spectrometers, microscopes) and office furniture and equipment. Also excluded are the costs of predesign studies (e.g., those undertaken before commitment to a specific facility). These excluded costs should be reported under total conduct of R&D. Obligations for foreign R&D plant are limited to Federal funds for facilities located abroad and used in support of foreign R&D.

4. **Fields of science and engineering** in this survey are divided into eight broad field categories, each consisting of a number of detailed fields. The broad fields are life sciences, psychology, physical sciences, environmental sciences, mathematics and computer sciences, engineering, social sciences, and other sciences not elsewhere classified. The term not elsewhere classified (n.e.c.) is to be used for multidisciplinary projects within a broad field and for single-discipline projects for which a separate field has not been assigned. The following list presents the fields grouped under each of the broad fields together with illustrative disciplines.

a. **Life sciences** consist of five detailed fields: biological (excluding environmental), environmental biology, agricultural, medical, and life sciences n.e.c. The illustrative disciplines provided below under each of these detailed fields are intended to be guidelines, not sharp definitions; they represent examples of disciplines generally classified under each detailed field. A discipline under one detailed field may also be classified under another detailed field when both classifications might apply. Research in biochemistry, for example, could be reported as biological, agricultural, or medical, depending on the orientation of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would be under agricultural. In no case should the research be reported under more than one field. No double counting is intended or allowed.

Biological (excluding environmental): anatomy; biochemistry; biology; biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; other biological, n.e.c.

Environmental biology: ecosystem sciences; evolutionary biology; limnology; physiological ecology; population biology; population and biotic community ecology; systematics; other environmental biology, n.e.c.

Agricultural: agronomy; ani-

mal sciences; food science and technology; fish and wildlife; forestry; horticulture; plant sciences; soils and soil science; phytopathology; phytoproduction; agriculture, general; other agriculture, n.e.c.

Medical: internal medicine; neurology; obstetrics and gynecology; ophthalmology; otolaryngology; pediatrics; preventive medicine; pathology; pharmacology; psychiatry; radiology; surgery; dentistry; pharmacy; veterinary medicine; other medical, n.e.c.

Life sciences, n.e.c.

b. **Psychology** deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology is divided into three categories: biological aspects, social aspects, and psychological sciences n.e.c. Examples of the disciplines under each of these fields are as follows:

Biological aspects: experimental psychology; animal behavior; clinical psychology; comparative psychology; ethology

Social aspects: social psychology; educational, personnel, vocational psychology, and testing; industrial and engineering psychology; development and personality

Psychological sciences, n.e.c.

c. **Physical sciences** are concerned with understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry, physics, and physical sciences n.e.c. Examples of disciplines under each of these fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; X-ray, Gamma-ray, neutrino astronomy

Chemistry: inorganic; organometallic; organic; physical

Physics: acoustics; atomic and molecular; condensed matter; elementary particle; nuclear structure; optics; plasma

Physical sciences, n.e.c.

d. **Environmental sciences** (terrestrial and extraterrestrial), with one exception, are concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect man's survival and welfare; they comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences n.e.c. The one exception is that obligations for studies pertaining to life in the sea or other bodies of water are to be reported as support of oceanography and not biology. Examples of disciplines under each of these fields are as follows:

Atmospheric sciences: aeronomy; solar; weather modification; extraterrestrial atmospheres; meteorology

Geological sciences: engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology; inorganic geochemistry; isotopic geochemistry; organic geochemistry; laboratory geophysics; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences

Oceanography: biological oceanography; chemical oceanography; physical oceanography; marine geophysics

Environmental sciences, n.e.c.

e. **Mathematics and computer sciences,** employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols, and in the case of computer sciences, with the application of such methods to automated information systems. Examples of disciplines under these fields are as follows:

Mathematics: algebra; analysis; applied mathematics; foundations and logic; geometry; numerical analysis; statistics; topology

Computer sciences: programming languages; computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; systems analysis

Mathematics and computer sciences, n.e.c.

f. **Engineering** is concerned with studies directed toward developing engineering principles or toward making specific principles usable in engineering practice. Engineering is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials, and engineering n.e.c. Examples of disciplines under each of these fields are as follows:

Aeronautical: aerodynamics

Astronautical: aerospace; space technology

Chemical: petroleum; petroleum refining; process

Civil: architectural; hydraulic; hydrologic; marine; sanitary and environmental; structural; transportation

Electrical: communication; electronic; power

Mechanical: engineering mechanics

Metallurgy and materials: ceramic; mining; textile; welding

Engineering, n.e.c. agricultural; bioengineering; biomedical; industrial and management; nuclear; ocean engineering; systems

g. **Social sciences** are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences include anthropology, economics, political science, sociology, and social sciences n.e.c. Examples of disciplines under the fields of social science are as follows:

Anthropology: archaeology; cultural and personality; social and ethnology; applied anthropology

Economics: econometrics and economic statistics; history of economic thought; international economics; industrial, labor and agricultural economics; macroeconomics; microeconomics; public finance and fiscal policy; theory; economic systems and development

Political science: area or regional studies; comparative government; history of political ideas; international relations and law; national political and legal systems; political theory; public administration

Sociology: comparative and historical; complex organizations; culture and social structure; demography; group interactions; social problems and social welfare; sociological theory

Social sciences, n.e.c.: linguistics; research in education; research in history; socioeconomic geography; research in law, e.g., attempts to assess impact on society of legal systems and practices

h. **Other sciences, n.e.c.:** To be used for multidisciplinary and interdisciplinary projects that cannot be classified within one of the broad fields of science above.

5. A **performer** is either an intramural group or organization carrying out an operational function or an extramural organization or person receiving support or providing services under a contract or grant.

a. **Intramural performers** are the agencies of the Federal Government. Their work is carried on directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself, or they represent funds that the agency transfers to another Federal agency for performance of work as long as the ultimate performer is that agency or any Federal agency. If the ultimate performer is not a Federal agency, the funds so transferred are to be reported by the transferring agency under the appropriate extramural performer category (industrial firms, universities and colleges, or other nonprofit institutions).

NOTE: Intramural activities cover costs associated with the planning and administration of intramural and extramural programs by Federal personnel as well as actual intramural R&D performance. Intramural activities also include the costs of supplies and equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural R&D. For example, the purchase from an extramural source of an operational launch vehicle (i.e., one that has gone beyond the development or prototype stage) that is used for intramural performance of R&D should be reported as a part of the cost of intramural R&D.

b. **Extramural performers** are organizations outside the Federal sector that perform with Federal funds under contract, grant, or cooperative agreement. Only those costs associated with actual R&D performance should be reported, but these would include costs of materials and supplies to carry out R&D activities. Note that the costs of "off-the-shelf" supplies and equipment procured from extramural suppliers that are required to support intramural R&D should be considered as part of the costs of intramural performance and not as part of the costs of extramural performance.

Extramural performers are identified as follows:

i. **Industrial firms:** Those organizations that may legally distribute net earnings to individuals or to other organizations.

ii. **Universities and colleges:** Institutions engaged primarily in providing resident and/or accredited instruction for at least a 2-year program above the secondary school level. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including affiliated hospitals and associated research institutes; and agricultural experiment stations.

iii. **Other nonprofit institutions:** Private organizations other than educational institutions whose net earnings in no part inure to the benefit of a private stockholder or individual, and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit organizations.

iv. **Federally funded research and development centers (FFRDCs):** R&D-performing organizations exclusively or substantially financed by the Federal Government that are

supported by the Federal Government either to meet a particular R&D objective or, in some instances to provide major facilities at universities for research and associated training purposes. Each center is administered either by an industrial firm, a university, or another nonprofit institution.

In general, all of the following criteria are met by an organization before it is included in the FFRDC category: (1) its primary activities include one or more of the following: basic research, applied research, development, or management of R&D (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination); (2) it is a separate operational unit within the parent organization or is organized as a separately incorporated organization; (3) it performs actual R&D or R&D management either upon direct request of the Federal Government or under a broad charter from the Federal Government, but in either case under the direct monitorship of the Federal Government; (4) it receives its major financial support (70 percent or more) from the Federal Government, usually from one agency; (5) it has, or is expected to have, a long-term relationship with its sponsoring agency (about five years or more), as evidenced by specific obligations assumed by it and the agency; (6) most or all of its facilities are owned by, or are funded under contract with, the Federal Government; and (7) it has an average annual budget (operating and capital equipment) of at least $500,000.

FFRDCs are grouped into four categories: research laboratories, R&D laboratories, study and analysis centers, and system engineering/system integration centers, according to their primary activity to reflect the differences in the nature and activities of the centers.

v. **State and local governments:** State and local government agencies, excluding State or local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such State and local institutions should be included under the universities-and-colleges category in this report.) R&D activities under the state-and-local category are performed either by the State or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, Federal R&D funds directed to State and local governments are to be reported under this sector and no other.

vi. **Foreign performers:** Foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as NATO, UNESCO, WHO), performing work abroad financed by the Federal Government. Excluded are U.S. agencies, organizations, or citizens performing R&D abroad for the Federal Government; the survey does not seek information on "off-shore" payments. An exception is made in the case of U.S. citizens performing R&D abroad under special foreign currency funds; these activities are included under foreign performers. Foreign scientists performing in the United States are excluded, however.

vii. **Private individuals:** Obligations for an R&D grant or contract awarded directly to a private individual, are reported under "industrial firms."

6. The **fiscal year** in the Federal Government accounting period begins October 1 of a given year and ends September 30 of the following year; thus, FY 1988 began on October 1, 1987, and ended September 30, 1988.

7. Funds reported for R&D reflect **full cost coverage**. In addition to costs of specific R&D projects, the applicable overhead costs are also included. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

8. **Geographic distribution of 1988 R&D obligations**

a. Ten agencies participated in the survey covering the geographic distribution of obligations for R&D and R&D plant. These ten agencies accounted for 98 percent of total Federal R&D and R&D plant obligations in 1988. The respondents were the Departments of Agriculture (USDA); Commerce; Energy (DOE); Defense (DOD); Health and Human Services (HHS); the Interior; and Transportation (DOT); the Environmental Protection Agency (EPA); NASA; and NSF.

b. Actual FY 1988 data were requested in terms of the principal location (State or outlying area) where the work was performed by the prime contractor, grantee, or intramural organization. When this information was not available in their records, the respondents were asked to assign the obligations to the State, outlying area, or office abroad where the headquarters of the U.S. prime contractor, grantee, or intramural organization was located.

c. Obligations were reported for R&D as a combined amount.

d. Specifically omitted from the geographic survey were R&D obligations to foreign performers and obligations for R&D plant used in support of foreign performers. Foreign performer data, by country, are reported in another part of the Federal Funds survey.

changes in reporting

Responses from the agencies in this survey, as in previous surveys, reflect revisions of estimates for the latest two years of the previous report, in this case FYs 1988 and 1989. Such revision is part of the budgetary cycle. From time to time responses also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When this occurs, NSF requires the agencies to provide revised prior-year data to maintain consistency and comparability with the most recent concepts.

limitations of the data

Funds for R&D were reported on a 3-year basis comparable with the 1990 budget, upon which the data were based. The respondents reconciled the data reported to the Federal Funds survey with amounts for R&D provided to OMB for the 1990 budget. The amounts reported for each year, as already stated, are the obligations or outlays incurred in that year, regardless of when funds were authorized or received by an agency and regardless of whether the funds were identified in the agency's budget specifically for research, development, and/or R&D plant.

Some agencies have not been able to report the full costs of R&D. For example, the headquarters costs of planning and administering R&D programs of DOD (estimated at a fraction of 1 percent of the DOD R&D total) are not included because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also to some extent underreported because of the difficulty encountered by some agencies, particularly DOD and NASA, in identifying and reporting these data. While DOD reports obligations for R&D plant under its construction appropriation, that agency is able to identify only a small portion of the R&D plant support within R&D contracts that are funded from its appropriation for research, development, testing, and evaluation (RDT&E). NASA cannot separately identify the portions of industrial R&D contracts that apply to R&D plant. It subsumes R&D plant data in the R&D data covering industrial performance; R&D plant data for other NASA performing sectors are reported.

section b

federally funded research and development centers

The following is the master list of FFRDCs included in Federal Funds fiscal years 1988-90 survey. The list is arranged by sponsoring agency and administering organization.

department of defense

office of the secretary of defense

Administered by other nonprofit institutions:

Institute for Defense Analyses, Arlington, VA
Logistics Management Institute, Bethesda, MD
National Defense Research Institute (RAND Corp.),[1] Santa Monica, CA

defense advanced research projects agency

Administered by universities and colleges:

Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA

department of the navy

Administered by other nonprofit institutions:

Center for Naval Analyses (Hudson Institute), Arlington, VA

department of the air force

Administered by universities and colleges:

Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA

Administered by other nonprofit institutions:

Aerospace Corporation, El Segundo, CA
C3 I Federal Contract Research Center (MITRE Corp.),[2] Bedford, MA
Project Air Force (RAND Corp.),[1] Santa Monica, CA

department of the army

Administered by other nonprofit institutions:

Arroyo Center (RAND Corp.),[1] Santa Monica, CA

department of health and human services

national institutes of health

Administered by industrial firms:

Frederick Cancer Research Facility (Program Resources, Inc.; Bionetics Research, Inc.; Harlan Sprague Dawley, Inc.; Data Management Services, Inc.), Frederick, MD

department of energy

Administered by industrial firms:

Bettis Atomic Power Laboratory (Westinghouse-Electric Corp.), Pittsburgh, PA
Hanford Engineering Development Laboratory (Westinghouse-Hanford Corp.), Richland, WA
Idaho National Engineering Laboratory (E,G&G; Idaho; Rockwell International Corp.; Argonne National Laboratory, West; Westinghouse Electric Corp.), Idaho Falls, ID
Knolls Atomic Power Laboratory (General Electric Co.), Schenectady, NY
Energy Technology Engineering Center (Rockwell International Corp.), Canoga Park, CA
Oak Ridge National Laboratory (Martin Marietta Energy Systems Corp.), Oak Ridge, TN
Sandia National Laboratories (AT&T Technologies, Inc.—Sandia Corp.), Albuquerque, NM
Savannah River Laboratory (E.I. du Pont de Nemours & Co.),[3] Aiken, SC

Administered by universities and colleges:

Ames Laboratory (Iowa State University of Science and Technology), Ames, IA

[1] Three portions of the RAND Corporation were reported as FFRDCs: the Project Air Force, the National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), and the Arroyo Center. All other agency support to RAND was reported under "other nonprofit institutions excluding FFRDCs."

[2] Only the C3 I Division of the MITRE Corporation was reported as an FFRDC. All other agency support to MITRE was reported under "other nonprofit institutions excluding FFRDCs."

[3] As of April 1989, Westinghouse Savannah River Co. is the administering organization.

7

Argonne National Laboratory (University of Chicago and Argonne Universities Assn.), Argonne, IL
Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, NY
Continuous Electron Beam Accelerator Facility (Southeastern Universities Research Association), Newport News, VA
E.O. Lawrence Berkeley Laboratory (University of California), Berkeley, CA
E.O. Lawrence Livermore National Laboratory (University of California), Livermore, CA
Fermilab (Universities Research Association, Inc.), Batavia, IL
Los Alamos National Laboratory (University of California), Los Alamos, NM
Oak Ridge Associated Universities, Oak Ridge, TN
Plasma Physics Laboratory (Princeton University), Princeton, NJ
Stanford Linear Accelerator Center (Stanford University), Stanford, CA

Administered by other nonprofit institutions:

Inhalation Toxicology Research Institute (Lovelace Medical Foundation),[4] Albuquerque, NM
Pacific Northwest Laboratory (Battelle Memorial Institute), Richland, WA
Solar Energy Research Institute (Midwest Research Institute), Golden, CO

national aeronautics and space administration

Administered by universities and colleges:

Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA

[4]Established in FY 1989.

national science foundation

Administered by universities and colleges:

National Astronomy and Ionosphere Center (Cornell University), Arecibo, PR
National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, CO
National Optical Astronomy Observatories (Association of Universities for Research in Astronomy, Inc.),[5] Tucson, AZ
National Radio Astronomy Observatory (Associated Universities, Inc.), Green Bank, WV

[5]As of February 1984, this center includes three former FFRDCs: Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory, and the National Solar Observatory (formerly Sacramento Peak Observatory).

table notes

- Because of rounding, detail may not add to totals.
- Asterisks appearing in lieu of figures indicate that the amounts are less than $50,000 or less than .05 percent.
- The abbreviation "FFRDCs" appearing in statistical tables refers to federally funded research and development centers.
- The Office of Water Research and Technology (Department of the Interior) was combined with the U.S. Geological Survey in FY 1985.
- As of 1985, the National Archives is reported separately and is no longer included within the General Services Administration.
- In tables showing extramural performers, obligations of the Department of Agriculture to agricultural experiment stations are included within obligations to universities and colleges.
- Defense Agencies within the Department of Defense include the Defense Advanced Research Projects Agency, the Defense Nuclear Agency, the Defense Communications Agency, the Defense Mapping Agency, the Defense Logistics Agency, the Uniformed Services University of the Health Sciences, the Joint Tactical Command, Control, and Communications Agency, the Office of the Secretary of Defense/Organization of the Joint Chiefs of Staff, and the Strategic Defense Initiative Organization.
- Since agencies periodically revise their reporting concepts, some prior-year data changes do occur. Therefore, for trend comparisons, use only the historical data contained in appendix C (tables 35A through 46), rather than data published in previous Volumes in the *Federal Funds* for R&D series.

section c

detailed statistical tables

NOTE: Due to the increased costs of printing, the number of tables in this report has been reduced to include only those most frequently requested. The statistical tables excluded, however, are available upon request. See section D for further information and for instructions for obtaining additional tables.

For trend comparisons, use only the historical data for FYs 1969–90 contained in tables 35A through 46 of this volume or the Detailed Historical Tables, which are available upon request. Do not use data published in earlier Federal Funds volumes. The tables of this Volume XXXVIII incorporate changes made in prior years that reflect program reclassifications.

Page

Research, Development, and R&D Plant

1. Overall summary: fiscal years 1988, 1989, and 1990 13
2. By agency: fiscal years 1988, 1989, and 1990 .. 15

Research and Development—Agency, Character of Work, and Performer

3. By agency: fiscal years 1988, 1989, and 1990 .. 17
4. By agency and character of work: fiscal year 1988 19
5. By agency and character of work: fiscal year 1989 (est.) 21
6. By agency and character of work: fiscal year 1990 (est.) 23
7. By agency and performer: fiscal year 1988 25
8. By agency and performer: fiscal year 1989 (est.) 27
9. By agency and performer: fiscal year 1990 (est.) 29
10. Federal obligations for research and development to federally funded research and development centers (FFRDCs) by individual FFRDC and agency: fiscal year 1988 31
11. Federal obligations for R&D plant to federally funded research and development centers (FFRDCs) by individual FFRDC and agency: fiscal year 1988 32

Basic Research—Agency, Performer, and Field of Science/Engineering

12. By agency and performer: fiscal year 1988 33
13. By agency and performer: fiscal year 1989 (est.) 34
14. By agency and performer: fiscal year 1990 (est.) 35
15. By detailed field of science/engineering: fiscal years 1988, 1989, and 1990 36
16. By agency and field of science/engineering: fiscal year 1988 37
17. By agency and field of science/engineering: fiscal year 1989 (est.) .. 38
18. By agency and field of science/engineering: fiscal year 1990 (est.) .. 39

Applied Research—Agency, Performer, and Field of Science/Engineering

19. By agency and performer: fiscal year 1988 40
20. By agency and performer: fiscal year 1989 (est.) 42

Page

21. By agency and performer: fiscal year 1990 (est.) 44
22. By detailed field of science/engineering: fiscal years 1988, 1989, and 1990 46
23. By agency and field of science/engineering: fiscal year 1988 47
24. By agency and field of science/engineering: fiscal year 1989 (est.) .. 49
25. By agency and field of science/engineering: fiscal year 1990 (est.) .. 51

Development—Agency and Performer

26. By agency and performer: fiscal year 1988 53
27. By agency and performer: fiscal year 1989 (est.) 55
28. By agency and performer: fiscal year 1990 (est.) 57

R&D Plant—Agency and Performer

29. By agency: fiscal years 1988, 1989, and 1990 .. 59
30. By agency and performer of the R&D the plant supports: fiscal year 1988 60
31. By agency and performer of the R&D the plant supports: fiscal year 1989 (est.) 61
32. By agency and performer of the R&D the plant supports: fiscal year 1990 (est.) 62

Geographic Distribution—Research and Development and R&D Plant

33. Research and development, by State and performer: fiscal year 1988 63
34. Research and development, by State and agency: fiscal year 1988 64

Historical Data—Obligations

35A. Research, development, and R&D plant, by agency: fiscal years 1969–79 65
35B. Research, development, and R&D plant, by agency: fiscal years 1980–90 68
36A. Research and development, by agency: fiscal years 1969–79 71
36B. Research and development, by agency: fiscal years 1980–90 74
37. Research and development, by character of work and R&D plant: fiscal years 1969–90 ... 77
38A. Basic research, by selected agency: fiscal years 1969–79 78
38B. Basic research, by selected agency: fiscal years 1980–90 81
39A. Applied research, by selected agency: fiscal years 1969–79 84
39B. Applied research, by selected agency: fiscal years 1980–90 87
40A. Development, by selected agency: fiscal years 1969–79 90
40B. Development, by selected agency: fiscal years 1980–90 93
41A. Research and development, by performer: fiscal years 1969–79 ... 96
41B. Research and development, by performer: fiscal years 1980–90 ... 96
42A. Basic Research, by performer: fiscal years 1969–79 97
42B. Basic research, by performer: fiscal years 1980–90 97
43A. Applied research, by performer: fiscal years 1969–79 98
43B. Applied research, by performer: fiscal years 1980–90 98
44A. Development, by performer: fiscal years 1969–79 99
44B. Development, by performer: fiscal years 1980–90 99
45. Research and development, by geographic division and State: fiscal years 1978–88 100
46. R&D plant, by geographic division and State: fiscal years 1978–88 101

TABLE 1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT: FISCAL YEARS 1988, 1989, AND 1990

(MILLIONS OF DOLLARS)

ITEM	ACTUAL, 1988	ESTIMATES 1989	% CHG 1988-1989	1990	% CHG 1989-1990
TOTAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	56,556.6	61,299.3	8.4%	65,514.7	6.9%
RESEARCH AND DEVELOPMENT	54,739.4	59,140.3	8.0	63,147.2	6.8
R&D PLANT	1,817.2	2,159.0	18.8	2,367.4	9.7
TOTAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	58,992.2	64,330.8	9.0	68,523.9	6.5
RESEARCH AND DEVELOPMENT	56,935.1	61,902.0	8.7	66,084.0	6.8
PERFORMERS:					
FEDERAL INTRAMURAL 1/	14,280.9	15,795.1	10.6	16,725.7	5.9
INDUSTRIAL FIRMS	26,719.2	29,042.4	8.7	31,329.3	7.9
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,911.3	2,008.3	5.1	2,071.3	3.1
UNIVERSITIES AND COLLEGES	7,827.7	8,285.9	5.9	8,825.7	6.5
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	3,473.9	3,740.3	7.7	4,151.1	11.0
OTHER NONPROFIT INSTITUTIONS	1,682.6	1,908.8	13.4	1,855.6	-2.8
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	505.6	592.5	17.2	556.0	-6.2
STATE AND LOCAL GOVERNMENTS	142.1	166.7	17.3	159.9	-4.1
FOREIGN	391.8	362.1	-7.6	409.3	13.0
RESEARCH	18,650.0	20,415.5	9.5	21,091.4	3.3
PERFORMERS:					
FEDERAL INTRAMURAL 1/	5,338.4	5,890.5	10.3	5,925.6	.6
INDUSTRIAL FIRMS	2,642.5	3,115.7	17.9	3,060.3	-1.8
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	455.2	467.8	2.8	439.4	-6.1
UNIVERSITIES AND COLLEGES	7,022.9	7,485.1	6.6	8,048.0	7.5
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	1,564.8	1,637.3	7.8	1,846.2	9.4
OTHER NONPROFIT INSTITUTIONS	1,299.8	1,442.7	11.0	1,426.4	-1.1
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	82.9	94.1	13.6	101.6	7.9
STATE AND LOCAL GOVERNMENTS	103.1	115.7	12.2	109.1	-5.7
FOREIGN	140.4	116.6	-16.9	134.7	15.5
FIELDS OF SCIENCE:					
LIFE SCIENCES	7,724.5	8,276.4	7.1	8,739.4	5.6
PSYCHOLOGY	389.8	431.2	10.6	448.7	4.0
PHYSICAL SCIENCES	3,317.3	3,725.9	12.3	3,965.7	6.4
ENVIRONMENTAL SCIENCES	1,607.0	1,774.1	10.4	1,755.8	-1.0
MATHEMATICS AND COMPUTER SCIENCES	642.9	724.4	12.7	755.6	4.3
ENGINEERING	3,956.3	4,363.7	10.3	4,257.8	-2.4
SOCIAL SCIENCES	485.8	561.2	15.5	588.6	4.9
OTHER SCIENCES, NEC	526.5	558.7	6.1	579.9	3.8
BASIC RESEARCH	9,473.6	10,464.4	10.5	11,200.6	7.0
PERFORMERS:					
FEDERAL INTRAMURAL 1/	2,050.3	2,332.3	13.8	2,373.6	1.8
INDUSTRIAL FIRMS	596.9	787.2	31.9	815.0	3.5
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	133.0	143.7	8.0	149.6	4.1
UNIVERSITIES AND COLLEGES	4,868.3	5,178.2	6.4	5,663.2	9.4
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	989.8	1,084.4	9.6	1,235.7	14.0
OTHER NONPROFIT INSTITUTIONS	728.6	825.4	13.3	840.5	1.8
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	17.7	19.4	10.0	26.2	34.6
STATE AND LOCAL GOVERNMENTS	42.7	47.5	11.3	50.0	5.1
FOREIGN	46.3	46.4	.3	46.8	.9
FIELDS OF SCIENCE:					
LIFE SCIENCES	4,501.8	4,821.6	7.1	5,199.1	7.8
PSYCHOLOGY	177.8	200.5	12.8	217.9	8.7
PHYSICAL SCIENCES	2,199.6	2,529.2	15.0	2,753.7	8.9
ENVIRONMENTAL SCIENCES	872.7	993.4	13.8	1,047.6	5.5
MATHEMATICS AND COMPUTER SCIENCES	313.2	338.5	8.1	368.8	8.9
ENGINEERING	1,006.2	1,138.8	13.2	1,106.6	-2.8
SOCIAL SCIENCES	146.8	168.1	14.5	199.1	18.4
OTHER SCIENCES, NEC	255.5	274.3	7.3	307.8	12.2
APPLIED RESEARCH	9,176.4	9,951.0	8.4	9,890.8	-.6
PERFORMERS:					
FEDERAL INTRAMURAL 1/	3,288.1	3,558.2	8.2	3,552.0	-.2
INDUSTRIAL FIRMS	2,045.6	2,328.5	13.8	2,245.4	-3.6
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	322.2	324.2	.6	289.8	-10.6
UNIVERSITIES AND COLLEGES	2,154.6	2,306.9	7.1	2,384.8	3.4
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	575.0	602.9	4.9	610.5	1.3
OTHER NONPROFIT INSTITUTIONS	571.2	617.3	8.1	585.9	-5.1
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	65.2	74.7	14.6	75.4	1.0
STATE AND LOCAL GOVERNMENTS	60.4	68.2	12.9	59.2	-13.2
FOREIGN	94.1	70.2	-25.4	87.9	25.2
FIELDS OF SCIENCE:					
LIFE SCIENCES	3,222.7	3,454.8	7.2	3,540.2	2.5
PSYCHOLOGY	212.0	230.7	8.8	230.8	*
PHYSICAL SCIENCES	1,117.7	1,196.8	7.1	1,212.0	1.3
ENVIRONMENTAL SCIENCES	734.3	780.7	6.3	708.1	-9.3
MATHEMATICS AND COMPUTER SCIENCES	329.6	385.8	17.0	386.8	.3
ENGINEERING	2,950.0	3,224.9	9.3	3,151.2	-2.3
SOCIAL SCIENCES	339.0	393.0	15.9%	389.6	-0.9%
OTHER SCIENCES, NEC	271.0	284.4	4.9	272.1	-4.3

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT: FISCAL YEARS 1988, 1989, AND 1990

(MILLIONS OF DOLLARS)

- CONTINUED

ITEM	ACTUAL, 1988	ESTIMATES 1989	% CHG 1988-1989	1990	% CHG 1989-1990
DEVELOPMENT	38,285.1	41,486.6	8.4%	44,992.6	8.5%
PERFORMERS:					
FEDERAL INTRAMURAL 1/	8,942.5	9,904.7	10.8	10,800.1	9.0
INDUSTRIAL FIRMS	24,076.7	25,926.7	7.7	28,269.0	9.0
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,456.1	1,540.4	5.8	1,631.9	5.9
UNIVERSITIES AND COLLEGES	804.8	800.9	-.5	777.7	-2.9
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	1,909.1	2,053.0	7.5	2,304.9	12.3
OTHER NONPROFIT INSTITUTIONS	382.8	466.1	21.8	429.2	-7.9
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	422.7	498.4	17.9	454.5	-8.8
STATE AND LOCAL GOVERNMENTS	39.0	51.0	30.7	50.8	-.4
FOREIGN	251.4	245.5	-2.3	274.6	11.9
R&D PLANT	2,057.1	2,428.8	18.1	2,439.9	.5
PERFORMERS SUPPORTED:					
FEDERAL INTRAMURAL	319.6	470.7	47.3	303.0	-35.6
INDUSTRIAL FIRMS	719.5	1,016.1	41.2	1,031.2	1.5
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	204.3	228.8	12.0	255.4	11.6
UNIVERSITIES AND COLLEGES	245.8	192.1	-21.8	86.4	-55.1
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	535.3	505.4	-5.6	749.0	48.2
OTHER NONPROFIT INSTITUTIONS	23.7	2.4	-89.9	2.7	11.0
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	6.2	6.7	8.3	9.9	48.3
STATE AND LOCAL GOVERNMENTS	.3	.3	.0	.3	.0
FOREIGN	2.4	6.3	162.8	2.1	-66.6

1/ COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS ARE COVERED AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

* INDICATES PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1988, 1989, AND 1990

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1988	ESTIMATES		1988	ESTIMATES	
		1989	1990		1989	1990
TOTAL, ALL AGENCIES	58,992.2	64,330.8	68,523.9	56,556.6	61,299.3	65,514.7
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	1,151.8	1,158.4	1,103.5	1,049.7	1,133.3	1,180.9
AGRICULTURAL COOPERATIVE SERVICE	2.7	2.7	1.4	2.7	2.7	1.4
AGRICULTURAL MARKETING SERVICE	1.6	1.6	-	1.6	1.6	-
AGRICULTURAL RESEARCH SERVICE	561.2	598.7	599.7	540.4	585.6	610.5
ANIMAL & PLANT HEALTH INSPECTION SVC	6.2	8.1	7.7	6.2	8.1	7.7
COOPERATIVE STATE RESEARCH SERVICE	374.7	341.1	279.4	294.8	338.0	356.4
ECONOMIC RESEARCH SERVICE	48.1	49.6	51.7	47.2	49.0	50.7
FEDERAL GRAIN INSPECTION SERVICE	1.0	1.1	1.1	1.0	1.1	1.1
FOREST SERVICE	138.4	139.5	147.0	138.0	131.0	137.2
HUMAN NUTRITION INFORMATION SERVICE	8.2	8.8	9.5	8.2	8.8	9.5
NAT'L AGRICULTURAL STATISTICS SVC	3.6	3.7	3.7	3.6	3.8	4.0
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	5.0	2.5	1.8	5.0	2.5	1.8
OFFICE OF TRANSPORTATION	1.1	1.1	.6	1.1	1.1	.6
DEPARTMENT OF COMMERCE, TOTAL	400.2	417.4	325.3	389.4	413.0	324.3
BUREAU OF THE CENSUS	5.7	5.4	5.5	5.6	5.4	5.5
ECONOMIC DEVELOPMENT ADMINISTRATION	4.2	1.2	-	2.7	3.8	1.9
NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY	118.7	134.8	132.9	111.4	128.7	132.2
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	263.5	268.1	178.6	263.5	268.1	178.6
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	8.1	7.9	8.3	6.1	6.7	6.1
OFFICE OF THE SECRETARY	-	-	-	.1	.3	-
DEPARTMENT OF DEFENSE, TOTAL	35,850.9	38,230.2	40,758.4	34,573.0	37,047.2	38,755.4
DEPARTMENT OF THE ARMY	4,898.8	5,421.4	5,904.5	4,899.6	5,303.0	5,605.4
MILITARY FUNCTIONS	4,865.6	5,383.9	5,866.7	4,866.3	5,265.5	5,567.5
CIVIL FUNCTIONS (CORPS OF ENGINEERS)	33.2	37.5	37.8	33.2	37.5	37.8
DEPARTMENT OF THE NAVY	9,588.9	9,741.7	10,455.5	9,081.9	9,832.7	10,020.7
DEPARTMENT OF THE AIR FORCE	15,177.3	15,547.0	15,347.3	14,774.5	15,075.0	15,010.4
DEFENSE AGENCIES	5,957.3	7,313.3	8,631.5	5,690.3	6,658.7	7,864.6
TEST & EVAL, DPTY UNDER SECRETARY DEF	160.3	154.5	273.3	119.6	130.1	179.2
DIRECTOR, OPERATIONAL TEST & EVALUATION	68.2	52.3	146.2	7.2	47.6	75.1
DEPARTMENT OF EDUCATION	145.9	162.9	145.7	142.9	155.5	148.8
DEPARTMENT OF ENERGY	5,951.4	6,405.2	6,384.3	5,743.7	6,170.0	6,442.8
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	7,177.6	8,003.8	8,398.0	6,923.2	7,473.3	8,144.7
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	554.8	679.0	763.7	554.8	679.0	759.9
CENTERS FOR DISEASE CONTROL	88.7	101.7	105.0	88.7	101.7	105.0
FOOD & DRUG ADMINISTRATION	91.5	124.5	108.5	91.3	96.8	105.2
HEALTH CARE FINANCING ADMINISTRATION	28.2	50.5	37.0	31.4	24.4	35.8
HEALTH RESOURCES AND SERVICES ADMIN	10.0	10.0	10.3	10.0	10.0	10.3
HUMAN DEVELOPMENT SERVICES	54.0	104.7	105.4	50.9	61.1	102.7
NATIONAL INSTITUTES OF HEALTH	6,309.9	6,882.0	7,198.8	6,060.2	6,454.7	6,989.0
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	21.0	27.7	47.8	20.0	25.7	18.9
OFFICE OF THE SECRETARY	4.7	7.9	5.0	4.7	7.9	5.0
SOCIAL SECURITY ADMINISTRATION	14.7	15.7	16.6	11.1	12.5	12.9
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	18.4	18.2	21.8	14.9	17.5	19.1

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1988, 1989, AND 1990

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1988	ESTIMATES 1989	ESTIMATES 1990	1988	ESTIMATES 1989	ESTIMATES 1990
DEPARTMENT OF THE INTERIOR, TOTAL	426.1	442.3	390.9	419.6	438.9	395.3
BUREAU OF LAND MANAGEMENT	3.7	3.7	3.0	3.7	3.7	3.0
BUREAU OF MINES	91.3	104.3	72.3	87.6	102.0	78.5
BUREAU OF RECLAMATION	4.4	3.9	4.5	4.4	3.9	4.5
GEOLOGICAL SURVEY 1/	236.9	241.3	233.0	238.6	245.2	233.2
MINERAL MANAGEMENT SERVICE	1.2	1.2	1.2	1.2	1.2	1.2
NATIONAL PARK SERVICE	19.4	19.2	19.5	19.4	19.2	19.5
OFFICE OF THE SECRETARY	.4	.4	.5	.4	.4	.5
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1.0	1.0	1.6	1.0	1.0	1.6
UNITED STATES FISH AND WILDLIFE SERVICE	67.8	67.3	55.3	63.3	62.2	53.4
DEPARTMENT OF JUSTICE, TOTAL	43.1	40.2	34.7	48.1	39.0	43.8
DRUG ENFORCEMENT ADMINISTRATION	2.5	1.9	1.9	2.5	1.9	1.9
FEDERAL BUREAU OF INVESTIGATION	12.7	6.6	6.7	12.7	6.6	6.7
FEDERAL PRISON SYSTEM	6.0	6.1	4.2	6.0	5.2	6.7
IMMIGRATION AND NATURALIZATION SERVICE	.3	.4	.4	5.2	5.2	6.6
OFFICE OF JUSTICE PROGRAMS	21.5	25.1	21.5	21.6	20.0	21.8
DEPARTMENT OF LABOR, TOTAL	35.6	32.5	36.0	31.8	32.8	35.9
BUREAU OF LABOR STATISTICS	7.0	7.2	8.2	7.0	7.2	8.2
EMPLOYMENT STANDARDS ADMINISTRATION	.1	.2	.2	.1	.2	.2
EMPLOYMENT AND TRAINING ADMINISTRATION	14.9	12.8	17.1	11.2	13.2	17.1
LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS 2/	.4	.4	.4	.4	.4	.4
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4.2	4.4	4.4	4.2	4.4	4.4
OFFICE OF PENSION & WELFARE BENEFITS	2.7	1.3	2.4	2.6	1.3	2.3
OFFICE OF THE SECRETARY	6.1	5.9	3.2	6.1	5.9	3.2
PENSION BENEFIT GUARANTEE CORPORATION	.3	.3	.2	.3	.3	.2
DEPARTMENT OF STATE, TOTAL	4.2	4.1	3.2	4.2	4.1	3.2
DEPARTMENTAL FUNDS	4.2	4.1	3.2	4.2	4.1	3.2
DEPARTMENT OF TRANSPORTATION, TOTAL	317.9	347.7	357.6	332.1	403.4	398.1
COAST GUARD	21.4	18.8	19.0	14.9	19.1	16.8
FEDERAL AVIATION ADMINISTRATION	173.8	191.2	207.8	190.2	193.3	199.2
FEDERAL HIGHWAY ADMINISTRATION	73.5	82.0	75.4	60.1	80.3	88.8
FEDERAL RAILROAD ADMINISTRATION	10.4	12.2	9.3	10.6	13.7	10.1
MARITIME ADMINISTRATION	.5	.3	-	2.6	6.9	-
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	28.3	33.6	34.4	45.2	80.7	72.4
OFFICE OF THE SECRETARY	5.7	5.7	8.1	5.2	5.2	6.6
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	2.1	1.7	1.7	2.0	1.7	1.7
URBAN MASS TRANSPORTATION ADMINISTRATION	2.3	2.1	2.0	1.4	2.6	2.5
DEPARTMENT OF THE TREASURY, TOTAL	26.2	29.9	31.3	25.8	29.6	30.7
BUREAU OF ENGRAVING AND PRINTING	2.0	4.4	4.8	2.0	4.4	4.8
INTERNAL REVENUE SERVICE	14.4	14.4	17.1	14.0	14.0	16.6
OFFICE OF PROTECTIVE RESEARCH	.4	.7	.8	.4	.7	.8
UNITED STATES CUSTOMS SERVICE	9.3	7.8	7.9	9.3	7.8	7.9
UNITED STATES MINT	.1	2.5	.7	.2	2.6	.7
DEPARTMENT OF VETERANS AFFAIRS	234.8	248.0	210.1	201.9	212.3	209.2
OTHER AGENCIES						
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1.8	1.4	1.4	1.4	1.0	1.2
AGENCY FOR INTERNATIONAL DEVELOPMENT	210.6	144.9	174.6	229.1	158.4	186.6
APPALACHIAN REGIONAL COMMISSION	.2	.4	-	.2	.4	-
CONSUMER PRODUCT SAFETY COMMISSION	1.1	1.4	.6	1.2	1.4	.7
ENVIRONMENTAL PROTECTION AGENCY	347.4	385.9	420.7	340.0	363.8	404.9
FEDERAL COMMUNICATIONS COMMISSION	1.2	1.2	1.3	1.2	1.2	1.3
FEDERAL HOME LOAN BANK BOARD	3.4	4.0	4.2	3.4	4.0	4.2
FEDERAL TRADE COMMISSION	.4	.4	.5	.4	.4	.5
GENERAL SERVICES ADMINISTRATION 3/	2.3	1.7	.8	2.3	1.7	.8
INTERNATIONAL TRADE COMMISSION	8.1	8.0	9.4	8.1	8.0	9.4
LIBRARY OF CONGRESS	7.1	7.5	9.2	7.1	7.5	9.2
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	4,758.6	6,249.6	7,459.3	4,230.4	5,225.0	6,663.0
NATIONAL ARCHIVES	.7	.7	.7	.7	.7	.7
NATIONAL SCIENCE FOUNDATION	1,589.6	1,723.0	1,966.7	1,550.7	1,699.0	1,835.6
NUCLEAR REGULATORY COMMISSION	108.5	115.9	130.0	113.5	113.1	124.6
SMITHSONIAN INSTITUTION	75.8	82.4	93.4	74.8	81.1	89.5
TENNESSEE VALLEY AUTHORITY	87.7	58.8	50.2	86.9	59.4	50.2
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3.4	2.3	.2	3.4	2.3	.2
UNITED STATES INFORMATION AGENCY	.4	.2	-	1.5	1.0	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

2/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS.

3/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1988, 1989, AND 1990

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1988	ESTIMATES		1988	ESTIMATES	
		1989	1990		1989	1990
TOTAL, ALL AGENCIES	56,935.1	61,902.0	66,084.0	54,739.4	59,140.3	63,147.2
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	1,016.6	1,049.3	1,045.2	971.2	1,020.1	1,044.2
AGRICULTURAL COOPERATIVE SERVICE	2.7	2.7	1.4	2.7	2.7	1.4
AGRICULTURAL MARKETING SERVICE	1.6	1.6	-	1.6	1.6	-
AGRICULTURAL RESEARCH SERVICE	505.7	525.0	546.3	482.1	504.9	546.2
ANIMAL & PLANT HEALTH INSPECTION SVC	5.6	7.5	7.2	5.6	7.5	7.2
COOPERATIVE STATE RESEARCH SERVICE	298.4	307.9	279.4	277.3	307.7	286.9
ECONOMIC RESEARCH SERVICE	48.1	49.6	51.7	47.2	49.0	50.7
FEDERAL GRAIN INSPECTION SERVICE	1.0	1.1	1.1	1.0	1.1	1.1
FOREST SERVICE	135.5	137.9	142.5	135.8	129.3	134.8
HUMAN NUTRITION INFORMATION SERVICE	8.2	8.8	9.5	8.2	8.8	9.5
NAT'L AGRICULTURAL STATISTICS SVC	3.6	3.7	3.7	3.6	3.8	4.0
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	5.0	2.5	1.8	5.0	2.5	1.8
OFFICE OF TRANSPORTATION	1.1	1.1	.6	1.1	1.1	.6
DEPARTMENT OF COMMERCE, TOTAL	388.9	405.5	310.4	378.6	400.7	309.7
BUREAU OF THE CENSUS	5.7	5.4	5.5	5.6	5.4	5.5
ECONOMIC DEVELOPMENT ADMINISTRATION	4.2	1.2	-	2.4	3.0	1.1
NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY	107.9	123.4	118.4	101.3	117.7	118.9
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	263.0	267.6	178.1	263.0	267.6	178.1
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	8.1	7.9	8.3	6.1	6.7	6.1
OFFICE OF THE SECRETARY	-	-	-	.1	.3	-
DEPARTMENT OF DEFENSE, TOTAL	35,415.1	37,630.4	40,242.0	34,156.8	36,573.0	38,283.0
DEPARTMENT OF THE ARMY	4,806.0	5,350.9	5,843.1	4,837.8	5,219.7	5,536.9
MILITARY FUNCTIONS	4,772.8	5,313.4	5,805.3	4,804.6	5,182.2	5,499.1
CIVIL FUNCTIONS (CORPS OF ENGINEERS)	33.2	37.5	37.8	33.2	37.5	37.8
DEPARTMENT OF THE NAVY	9,514.1	9,617.5	10,372.6	9,003.1	9,751.0	9,931.1
DEPARTMENT OF THE AIR FORCE	15,033.6	15,266.7	15,068.7	14,567.0	14,860.9	14,778.9
DEFENSE AGENCIES	5,832.9	7,188.5	8,538.0	5,622.1	6,563.6	7,781.8
TEST & EVAL, DPTY UNDER SECRETARY DEF	160.3	154.5	273.3	119.6	130.1	179.2
DIRECTOR, OPERATIONAL TEST & EVALUATION	68.2	52.3	146.2	7.2	47.6	75.1
DEPARTMENT OF EDUCATION	140.7	161.1	143.9	131.8	150.0	146.3
DEPARTMENT OF ENERGY	5,036.4	5,478.9	5,282.0	4,964.7	5,275.4	5,387.8
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	7,158.0	7,888.0	8,375.9	6,892.5	7,402.2	8,093.3
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	554.8	679.0	763.7	554.8	679.0	759.9
CENTERS FOR DISEASE CONTROL	88.7	101.7	105.0	88.7	101.7	105.0
FOOD & DRUG ADMINISTRATION	91.0	99.0	108.0	89.6	94.0	98.0
HEALTH CARE FINANCING ADMINISTRATION	28.2	50.5	37.0	31.4	24.4	35.8
HEALTH RESOURCES AND SERVICES ADMIN	10.0	10.0	10.3	10.0	10.0	10.3
HUMAN DEVELOPMENT SERVICES	54.0	104.7	105.4	50.9	61.1	102.7
NATIONAL INSTITUTES OF HEALTH	6,290.9	6,791.7	7,177.2	6,031.2	6,386.4	6,944.8
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	21.0	27.7	47.8	20.0	25.7	18.9
OFFICE OF THE SECRETARY	4.7	7.9	5.0	4.7	7.9	5.0
SOCIAL SECURITY ADMINISTRATION	14.7	15.7	16.6	11.1	12.0	12.9
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	18.4	18.2	21.8	14.9	17.5	19.1

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1988, 1989, AND 1990

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1988	ESTIMATES		1988	ESTIMATES	
		1989	1990		1989	1990
DEPARTMENT OF THE INTERIOR, TOTAL	416.8	432.3	387.6	414.6	432.1	392.2
BUREAU OF LAND MANAGEMENT	3.7	3.7	3.0	3.7	3.7	3.0
BUREAU OF MINES	91.3	102.3	72.3	87.6	100.0	78.5
BUREAU OF RECLAMATION	4.4	3.9	4.5	4.4	3.9	4.5
GEOLOGICAL SURVEY 1/	236.1	240.0	231.8	237.9	243.9	231.9
MINERAL MANAGEMENT SERVICE	1.2	1.2	1.2	1.2	1.2	1.2
NATIONAL PARK SERVICE	19.4	19.2	19.5	19.4	19.2	19.5
OFFICE OF THE SECRETARY	.4	.4	.5	.4	.4	.5
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1.0	1.0	1.6	1.0	1.0	1.6
UNITED STATES FISH AND WILDLIFE SERVICE	59.2	60.6	53.2	59.0	58.8	51.6
DEPARTMENT OF JUSTICE, TOTAL	43.1	40.2	34.7	48.1	39.0	43.8
DRUG ENFORCEMENT ADMINISTRATION	2.5	1.9	1.9	2.5	1.9	1.9
FEDERAL BUREAU OF INVESTIGATION	12.7	6.6	6.7	12.7	6.6	6.7
FEDERAL PRISON SYSTEM	6.0	6.1	4.2	6.0	5.2	6.7
IMMIGRATION AND NATURALIZATION SERVICE	.3	.4	.4	5.2	5.2	6.6
OFFICE OF JUSTICE PROGRAMS	21.5	25.1	21.5	21.6	20.0	21.8
DEPARTMENT OF LABOR, TOTAL	35.6	32.5	36.0	31.8	32.8	35.9
BUREAU OF LABOR STATISTICS	7.0	7.2	8.2	7.0	7.2	8.2
EMPLOYMENT STANDARDS ADMINISTRATION	.1	.2	.2	.1	.2	.2
EMPLOYMENT AND TRAINING ADMINISTRATION	14.9	12.8	17.1	11.2	13.2	17.1
LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS 2/	.4	.4	.4	.4	.4	.4
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4.2	4.4	4.4	4.2	4.4	4.4
OFFICE OF PENSION & WELFARE BENEFITS	2.7	1.3	2.4	2.6	1.3	2.3
OFFICE OF THE SECRETARY	6.1	5.9	3.2	6.1	5.9	3.2
PENSION BENEFIT GUARANTEE CORPORATION	.3	.3	.2	.3	.3	.2
DEPARTMENT OF STATE, TOTAL	4.2	4.1	3.2	4.2	4.1	3.2
DEPARTMENTAL FUNDS	4.2	4.1	3.2	4.2	4.1	3.2
DEPARTMENT OF TRANSPORTATION, TOTAL	304.0	335.0	330.1	321.0	391.0	383.3
COAST GUARD	21.1	18.5	18.7	14.6	18.8	16.5
FEDERAL AVIATION ADMINISTRATION	160.5	179.6	181.3	179.6	181.5	185.4
FEDERAL HIGHWAY ADMINISTRATION	73.5	82.0	75.4	60.1	80.3	88.8
FEDERAL RAILROAD ADMINISTRATION	10.0	11.5	8.5	10.3	13.3	9.4
MARITIME ADMINISTRATION	.5	.3	-	2.6	6.9	-
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	28.3	33.6	34.4	45.2	80.7	72.4
OFFICE OF THE SECRETARY	5.7	5.7	8.1	5.2	5.2	6.6
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	2.1	1.7	1.7	2.0	1.7	1.7
URBAN MASS TRANSPORTATION ADMINISTRATION	2.3	2.1	2.0	1.4	2.6	2.5
DEPARTMENT OF THE TREASURY, TOTAL	26.1	29.8	31.1	25.7	29.4	30.6
BUREAU OF ENGRAVING AND PRINTING	2.0	4.4	4.8	2.0	4.4	4.8
INTERNAL REVENUE SERVICE	14.4	14.4	17.1	14.0	14.0	16.6
OFFICE OF PROTECTIVE RESEARCH	.4	.7	.7	.4	.7	.7
UNITED STATES CUSTOMS SERVICE	9.2	7.7	7.8	9.2	7.7	7.8
UNITED STATES MINT	.1	2.5	.7	.2	2.6	.7
DEPARTMENT OF VETERANS AFFAIRS	215.3	235.6	203.4	197.3	206.0	198.8
OTHER AGENCIES						
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1.8	1.4	1.4	1.4	1.0	1.2
AGENCY FOR INTERNATIONAL DEVELOPMENT	204.4	140.6	169.5	216.6	148.6	175.1
APPALACHIAN REGIONAL COMMISSION	.2	.4	-	.2	.4	-
CONSUMER PRODUCT SAFETY COMMISSION	1.1	1.4	.6	1.2	1.4	.7
ENVIRONMENTAL PROTECTION AGENCY	347.4	385.9	420.7	340.0	363.8	404.9
FEDERAL COMMUNICATIONS COMMISSION	1.2	1.2	1.3	1.2	1.2	1.3
FEDERAL HOME LOAN BANK BOARD	3.4	4.0	4.2	3.4	4.0	4.2
FEDERAL TRADE COMMISSION	.4	.4	.5	.4	.4	.5
GENERAL SERVICES ADMINISTRATION 3/	2.3	1.7	.8	2.3	1.7	.8
INTERNATIONAL TRADE COMMISSION	8.1	8.0	9.4	8.1	8.0	9.4
LIBRARY OF CONGRESS	7.1	7.5	9.2	7.1	7.5	9.2
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	4,330.4	5,688.4	6,870.4	3,831.7	4,740.7	6,152.1
NATIONAL ARCHIVES	.7	.7	.7	.7	.7	.7
NATIONAL SCIENCE FOUNDATION	1,532.8	1,663.6	1,881.0	1,494.0	1,634.4	1,755.8
NUCLEAR REGULATORY COMMISSION	108.5	115.9	130.0	113.5	113.1	124.6
SMITHSONIAN INSTITUTION	75.1	79.0	87.1	73.2	77.7	85.5
TENNESSEE VALLEY AUTHORITY	87.3	58.6	50.0	86.4	59.2	50.0
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3.4	2.3	.2	3.4	2.3	.2
UNITED STATES INFORMATION AGENCY	.4	.2	-	1.5	1.0	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

2/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS.

3/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	56,935,073	9,473,618	9,176,368	38,285,087
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	1,016,627	480,588	504,618	31,421
AGRICULTURAL COOPERATIVE SERVICE	2,690	-	2,690	-
AGRICULTURAL MARKETING SERVICE	1,644	-	1,332	312
AGRICULTURAL RESEARCH SERVICE	505,671	271,140	208,236	26,295
ANIMAL & PLANT HEALTH INSPECTION SVC	5,637	-	5,637	-
COOPERATIVE STATE RESEARCH SERVICE	298,445	145,824	152,621	-
ECONOMIC RESEARCH SERVICE	48,107	6,735	41,372	-
FEDERAL GRAIN INSPECTION SERVICE	1,035	-	602	433
FOREST SERVICE	135,500	51,600	79,900	4,000
HUMAN NUTRITION INFORMATION SERVICE	8,215	-	8,215	-
NAT'L AGRICULTURAL STATISTICS SVC	3,611	1,188	2,423	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	4,997	3,563	1,187	247
OFFICE OF TRANSPORTATION	1,075	538	403	134
DEPARTMENT OF COMMERCE, TOTAL	388,949	30,858	311,472	46,619
BUREAU OF THE CENSUS	5,709	1,342	2,419	1,948
ECONOMIC DEVELOPMENT ADMINISTRATION	4,170	-	4,170	-
NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY	107,947	26,278	72,614	9,055
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	263,000	3,238	224,971	34,791
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	8,123	-	7,298	825
DEPARTMENT OF DEFENSE, TOTAL	35,415,140	876,922	2,362,201	32,176,017
DEPARTMENT OF THE ARMY	4,806,045	165,727	587,990	4,052,328
DEPARTMENT OF THE NAVY	9,514,060	341,805	406,043	8,766,212
DEPARTMENT OF THE AIR FORCE	15,033,591	196,382	576,677	14,260,532
DEFENSE AGENCIES	5,832,935	173,008	791,491	4,868,436
TEST & EVAL, DPTY UNDER SECRETARY DEF	160,342	-	-	160,342
DIRECTOR, OPERATIONAL TEST & EVAL	68,167	-	-	68,167
DEPARTMENT OF EDUCATION	140,683	4,354	106,641	29,688
DEPARTMENT OF ENERGY	5,036,400	1,184,808	1,050,559	2,801,033
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	7,158,041	4,081,403	2,415,560	661,078
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	554,835	265,752	286,640	2,443
CENTERS FOR DISEASE CONTROL	88,722	-	88,722	-
FOOD & DRUG ADMINISTRATION	91,000	-	91,000	-
HEALTH CARE FINANCING ADMINISTRATION	28,156	-	28,156	-
HEALTH RESOURCES AND SERVICES ADMIN	10,032	1,079	8,953	-
HUMAN DEVELOPMENT SERVICES	53,966	-	7,130	46,836
NATIONAL INSTITUTES OF HEALTH	6,290,898	3,795,127	1,885,571	610,200
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	21,044	19,445	-	1,599
OFFICE OF THE SECRETARY	4,738	-	4,738	-
SOCIAL SECURITY ADMINISTRATION	14,650	-	14,650	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	18,412	-	6,282	12,130
DEPARTMENT OF THE INTERIOR, TOTAL	416,768	126,464	266,016	24,288
BUREAU OF LAND MANAGEMENT	3,700	-	2,200	1,500
BUREAU OF MINES	91,341	32,052	54,118	5,171
BUREAU OF RECLAMATION	4,400	100	3,602	698
GEOLOGICAL SURVEY 1/	236,147	89,512	135,763	10,872
MINERAL MANAGEMENT SERVICE	1,187	-	1,187	-
NATIONAL PARK SERVICE	19,379	-	19,379	-
OFFICE OF THE SECRETARY	434	-	87	347
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	980	-	980	-
UNITED STATES FISH AND WILDLIFE SERVICE	59,200	4,800	48,700	5,700
DEPARTMENT OF JUSTICE, TOTAL	43,118	7,590	9,845	25,683
DRUG ENFORCEMENT ADMINISTRATION	2,500	-	600	1,900
FEDERAL BUREAU OF INVESTIGATION	12,733	-	-	12,733
FEDERAL PRISON SYSTEM	6,019	-	2,100	3,919
IMMIGRATION AND NATURALIZATION SERVICE	336	-	336	-
OFFICE OF JUSTICE PROGRAMS	21,530	7,590	6,809	7,131

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF LABOR, TOTAL	35,607	360	26,356	8,891
BUREAU OF LABOR STATISTICS	7,042	-	7,042	-
EMPLOYMENT STANDARDS ADMINISTRATION	60	-	60	-
EMPLOYMENT AND TRAINING ADMINISTRATION	14,865	360	6,486	8,019
LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS 2/	361	-	361	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4,200	-	4,200	-
OFFICE OF PENSION & WELFARE BENEFITS	2,670	-	2,670	-
OFFICE OF THE SECRETARY	6,109	-	5,237	872
PENSION BENEFIT GUARANTEE CORPORATION	300	-	300	-
DEPARTMENT OF STATE, TOTAL	4,159	3,116	1,043	-
DEPARTMENTAL FUNDS	4,159	3,116	1,043	-
DEPARTMENT OF TRANSPORTATION, TOTAL	303,954	-	91,045	212,909
COAST GUARD	21,124	-	5,400	15,724
FEDERAL AVIATION ADMINISTRATION	160,535	-	13,276	147,259
FEDERAL HIGHWAY ADMINISTRATION	73,485	-	43,537	29,948
FEDERAL RAILROAD ADMINISTRATION	9,965	-	8,160	1,805
MARITIME ADMINISTRATION	467	-	467	-
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	28,300	-	19,100	9,200
OFFICE OF THE SECRETARY	5,715	-	705	5,010
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	2,055	-	400	1,655
URBAN MASS TRANSPORTATION ADMINISTRATION	2,308	-	-	2,308
DEPARTMENT OF THE TREASURY, TOTAL	26,054	4,805	11,053	10,196
BUREAU OF ENGRAVING AND PRINTING	1,955	52	1,105	798
INTERNAL REVENUE SERVICE	14,423	4,659	9,041	723
OFFICE OF PROTECTIVE RESEARCH	351	94	257	-
UNITED STATES CUSTOMS SERVICE	9,193	-	650	8,543
UNITED STATES MINT	132	-	-	132
DEPARTMENT OF VETERANS AFFAIRS	215,300	17,300	178,800	19,200
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,769	-	1,769	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	204,443	3,005	132,100	69,338
APPALACHIAN REGIONAL COMMISSION	200	-	200	-
CONSUMER PRODUCT SAFETY COMMISSION	1,058	-	146	912
ENVIRONMENTAL PROTECTION AGENCY	347,430	27,196	240,723	79,511
FEDERAL COMMUNICATIONS COMMISSION	1,224	-	1,224	-
FEDERAL HOME LOAN BANK BOARD	3,409	-	3,409	-
FEDERAL TRADE COMMISSION	428	-	428	-
GENERAL SERVICES ADMINISTRATION 3/	2,301	-	2,301	-
INTERNATIONAL TRADE COMMISSION	8,077	-	8,077	-
LIBRARY OF CONGRESS	7,083	400	1,181	5,502
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	4,330,358	1,112,713	1,218,862	1,998,783
NATIONAL ARCHIVES	657	246	255	156
NATIONAL SCIENCE FOUNDATION	1,532,773	1,433,190	99,583	-
NUCLEAR REGULATORY COMMISSION	108,480	-	108,480	-
SMITHSONIAN INSTITUTION	75,096	75,096	-	-
TENNESSEE VALLEY AUTHORITY	87,274	3,204	15,258	68,812
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3,381	-	781	2,600
UNITED STATES INFORMATION AGENCY	420	-	100	320

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

2/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

3/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	61,902,039	10,464,433	9,951,033	41,486,573
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	1,049,264	491,427	526,477	31,360
AGRICULTURAL COOPERATIVE SERVICE	2,744	-	2,744	-
AGRICULTURAL MARKETING SERVICE	1,591	-	1,289	302
AGRICULTURAL RESEARCH SERVICE	524,981	283,490	215,242	26,249
ANIMAL & PLANT HEALTH INSPECTION SVC	7,495	-	7,495	-
COOPERATIVE STATE RESEARCH SERVICE	307,853	145,103	162,750	-
ECONOMIC RESEARCH SERVICE	49,555	6,938	42,617	-
FEDERAL GRAIN INSPECTION SERVICE	1,100	-	748	352
FOREST SERVICE	137,900	52,400	81,300	4,200
HUMAN NUTRITION INFORMATION SERVICE	8,823	-	8,823	-
NAT'L AGRICULTURAL STATISTICS SVC	3,688	1,213	2,475	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	2,455	1,743	589	123
OFFICE OF TRANSPORTATION	1,079	540	405	134
DEPARTMENT OF COMMERCE, TOTAL	405,529	32,048	326,252	47,229
BUREAU OF THE CENSUS	5,419	775	2,513	2,131
ECONOMIC DEVELOPMENT ADMINISTRATION	1,200	-	1,200	-
NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY	123,388	28,002	81,872	13,514
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	267,622	3,271	233,667	30,684
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	7,900	-	7,000	900
DEPARTMENT OF DEFENSE, TOTAL	37,630,437	908,313	2,527,333	34,194,791
DEPARTMENT OF THE ARMY	5,350,948	174,857	582,157	4,593,934
DEPARTMENT OF THE NAVY	9,617,524	343,972	417,415	8,856,137
DEPARTMENT OF THE AIR FORCE	15,266,681	188,274	550,159	14,528,248
DEFENSE AGENCIES	7,188,477	201,210	977,602	6,009,665
TEST & EVAL, DPTY UNDER SECRETARY DEF	154,500	-	-	154,500
DIRECTOR, OPERATIONAL TEST & EVAL	52,307	-	-	52,307
DEPARTMENT OF EDUCATION	161,066	4,381	115,534	41,151
DEPARTMENT OF ENERGY	5,478,855	1,313,873	1,105,372	3,059,610
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	7,887,995	4,411,223	2,693,774	782,998
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	679,042	320,900	354,797	3,345
CENTERS FOR DISEASE CONTROL	101,712	-	101,712	-
FOOD & DRUG ADMINISTRATION	99,000	-	99,000	-
HEALTH CARE FINANCING ADMINISTRATION	50,532	-	50,532	-
HEALTH RESOURCES AND SERVICES ADMIN	9,994	947	9,047	-
HUMAN DEVELOPMENT SERVICES	104,708	-	8,963	95,745
NATIONAL INSTITUTES OF HEALTH	6,791,700	4,063,474	2,046,126	682,100
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	27,710	25,902	-	1,808
OFFICE OF THE SECRETARY	7,851	-	7,851	-
SOCIAL SECURITY ADMINISTRATION	15,746	-	15,746	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	18,219	-	6,509	11,710
DEPARTMENT OF THE INTERIOR, TOTAL	432,302	147,268	259,020	26,014
BUREAU OF LAND MANAGEMENT	3,700	-	2,200	1,500
BUREAU OF MINES	102,280	48,080	49,900	4,300
BUREAU OF RECLAMATION	3,900	100	3,520	280
GEOLOGICAL SURVEY 1/	240,035	94,288	132,913	12,834
MINERAL MANAGEMENT SERVICE	1,187	-	1,187	-
NATIONAL PARK SERVICE	19,200	-	19,200	-
OFFICE OF THE SECRETARY	400	-	-	400
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1,000	-	1,000	-
UNITED STATES FISH AND WILDLIFE SERVICE	60,600	4,800	49,100	6,700
DEPARTMENT OF JUSTICE, TOTAL	40,175	9,733	10,865	19,577
DRUG ENFORCEMENT ADMINISTRATION	1,900	-	500	1,400
FEDERAL BUREAU OF INVESTIGATION	6,609	-	-	6,609
FEDERAL PRISON SYSTEM	6,149	-	2,100	4,049
IMMIGRATION AND NATURALIZATION SERVICE	400	-	400	-
OFFICE OF JUSTICE PROGRAMS	25,117	9,733	7,865	7,519

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF LABOR, TOTAL	32,501	336	24,526	7,639
BUREAU OF LABOR STATISTICS	7,200	-	7,200	-
EMPLOYMENT STANDARDS ADMINISTRATION	156	-	156	-
EMPLOYMENT AND TRAINING ADMINISTRATION	12,826	336	6,045	6,445
LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS 2/	360	-	360	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4,403	-	4,403	-
OFFICE OF PENSION & WELFARE BENEFITS	1,349	-	1,349	-
OFFICE OF THE SECRETARY	5,907	-	4,713	1,194
PENSION BENEFIT GUARANTEE CORPORATION	300	-	300	-
DEPARTMENT OF STATE, TOTAL	4,128	3,086	1,042	-
DEPARTMENTAL FUNDS	4,128	3,086	1,042	-
DEPARTMENT OF TRANSPORTATION, TOTAL	334,985	-	108,814	226,171
COAST GUARD	18,500	-	4,800	13,700
FEDERAL AVIATION ADMINISTRATION	179,559	-	25,922	153,637
FEDERAL HIGHWAY ADMINISTRATION	81,999	-	44,447	37,552
FEDERAL RAILROAD ADMINISTRATION	11,472	-	9,347	2,125
MARITIME ADMINISTRATION	293	-	293	-
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	33,600	-	22,200	11,400
OFFICE OF THE SECRETARY	5,720	-	1,405	4,315
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	1,694	-	400	1,294
URBAN MASS TRANSPORTATION ADMINISTRATION	2,148	-	-	2,148
DEPARTMENT OF THE TREASURY, TOTAL	29,802	3,377	14,845	11,580
BUREAU OF ENGRAVING AND PRINTING	4,444	477	2,814	1,153
INTERNAL REVENUE SERVICE	14,423	2,885	11,250	288
OFFICE OF PROTECTIVE RESEARCH	651	15	361	275
UNITED STATES CUSTOMS SERVICE	7,738	-	420	7,318
UNITED STATES MINT	2,546	-	-	2,546
DEPARTMENT OF VETERANS AFFAIRS	235,600	19,400	197,700	18,500
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,389	-	1,389	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	140,638	1,821	88,090	50,727
APPALACHIAN REGIONAL COMMISSION	425	-	425	-
CONSUMER PRODUCT SAFETY COMMISSION	1,407	-	391	1,016
ENVIRONMENTAL PROTECTION AGENCY	385,913	44,134	259,286	82,493
FEDERAL COMMUNICATIONS COMMISSION	1,249	-	1,249	-
FEDERAL HOME LOAN BANK BOARD	3,983	-	3,983	-
FEDERAL TRADE COMMISSION	436	-	436	-
GENERAL SERVICES ADMINISTRATION 3/	1,660	-	1,660	-
INTERNATIONAL TRADE COMMISSION	8,000	-	8,000	-
LIBRARY OF CONGRESS	7,532	397	1,213	5,922
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,688,358	1,438,387	1,426,093	2,823,878
NATIONAL ARCHIVES	710	25	380	305
NATIONAL SCIENCE FOUNDATION	1,663,608	1,553,167	110,441	-
NUCLEAR REGULATORY COMMISSION	115,884	-	115,884	-
SMITHSONIAN INSTITUTION	78,967	78,967	-	-
TENNESSEE VALLEY AUTHORITY	58,572	3,070	13,260	42,242
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	2,250	-	690	1,560
UNITED STATES INFORMATION AGENCY	200	-	100	100

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

2/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

3/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

22 BEST COPY AVAILABLE

TABLE 6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	66,084,038	11,200,587	9,890,810	44,992,641
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	1,045,205	511,949	501,118	32,138
AGRICULTURAL COOPERATIVE SERVICE	1,358	-	1,358	-
AGRICULTURAL RESEARCH SERVICE	546,318	295,012	223,990	27,316
ANIMAL & PLANT HEALTH INSPECTION SVC	7,200	-	7,200	-
COOPERATIVE STATE RESEARCH SERVICE	279,398	152,769	126,629	-
ECONOMIC RESEARCH SERVICE	51,714	7,240	44,474	-
FEDERAL GRAIN INSPECTION SERVICE	1,100	-	748	352
FOREST SERVICE	142,500	54,100	84,100	4,300
HUMAN NUTRITION INFORMATION SERVICE	9,468	-	9,468	-
NAT'L AGRICULTURAL STATISTICS SVC	3,688	1,213	2,475	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	1,833	1,301	440	92
OFFICE OF TRANSPORTATION	628	314	236	78
DEPARTMENT OF COMMERCE, TOTAL	310,358	31,271	247,198	31,889
BUREAU OF THE CENSUS	5,500	777	2,529	2,194
NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY	118,441	26,673	79,707	12,061
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	178,117	3,821	157,562	16,734
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	8,300	-	7,400	900
DEPARTMENT OF DEFENSE, TOTAL	40,242,013	964,174	2,411,994	36,865,845
DEPARTMENT OF THE ARMY	5,843,107	207,374	590,474	5,045,259
DEPARTMENT OF THE NAVY	10,372,560	390,267	411,207	9,571,086
DEPARTMENT OF THE AIR FORCE	15,068,726	215,801	581,045	14,271,880
DEFENSE AGENCIES	8,538,038	150,732	829,268	7,558,038
TEST & EVAL, DPTY UNDER SECRETARY DEF	273,338	-	-	273,338
DIRECTOR, OPERATIONAL TEST & EVAL	146,244	-	-	146,244
DEPARTMENT OF EDUCATION	143,872	4,438	119,307	20,127
DEPARTMENT OF ENERGY	5,282,044	1,394,229	999,776	2,888,039
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	8,375,908	4,754,013	2,795,672	826,223
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	763,666	359,709	399,942	4,015
CENTERS FOR DISEASE CONTROL	104,978	-	104,978	-
FOOD & DRUG ADMINISTRATION	108,000	-	108,000	-
HEALTH CARE FINANCING ADMINISTRATION	37,000	-	37,000	-
HEALTH RESOURCES AND SERVICES ADMIN	10,295	1,024	9,271	-
HUMAN DEVELOPMENT SERVICES	105,389	-	9,111	96,278
NATIONAL INSTITUTES OF HEALTH	7,177,200	4,346,910	2,105,790	724,500
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	47,800	46,370	-	1,430
OFFICE OF THE SECRETARY	5,012	-	5,012	-
SOCIAL SECURITY ADMINISTRATION	16,568	-	16,568	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	21,795	-	7,907	13,888
DEPARTMENT OF THE INTERIOR, TOTAL	387,562	128,514	237,104	21,944
BUREAU OF LAND MANAGEMENT	3,000	-	1,700	1,300
BUREAU OF MINES	72,335	32,000	38,335	2,000
BUREAU OF RECLAMATION	4,500	100	4,100	300
GEOLOGICAL SURVEY 1/	231,760	92,214	126,802	12,744
MINERAL MANAGEMENT SERVICE	1,187	-	1,187	-
NATIONAL PARK SERVICE	19,500	-	19,500	-
OFFICE OF THE SECRETARY	500	-	-	500
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1,580	-	1,580	-
UNITED STATES FISH AND WILDLIFE SERVICE	53,200	4,200	43,900	5,100
DEPARTMENT OF JUSTICE, TOTAL	34,656	5,588	10,981	18,087
DRUG ENFORCEMENT ADMINISTRATION	1,900	-	500	1,400
FEDERAL BUREAU OF INVESTIGATION	6,689	-	-	6,689
FEDERAL PRISON SYSTEM	4,176	-	1,700	2,476
IMMIGRATION AND NATURALIZATION SERVICE	400	-	400	-
OFFICE OF JUSTICE PROGRAMS	21,491	5,588	8,381	7,522

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF LABOR, TOTAL	35,989	341	24,207	11,441
BUREAU OF LABOR STATISTICS	8,200	-	8,200	-
EMPLOYMENT STANDARDS ADMINISTRATION	159	-	159	-
EMPLOYMENT AND TRAINING ADMINISTRATION	17,123	341	6,141	10,641
LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS 2/	360	-	360	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4,403	-	4,403	-
OFFICE OF PENSION & WELFARE BENEFITS	2,379	-	2,379	-
OFFICE OF THE SECRETARY	3,165	-	2,365	800
PENSION BENEFIT GUARANTEE CORPORATION	200	-	200	-
DEPARTMENT OF STATE, TOTAL	3,205	3,067	138	-
DEPARTMENTAL FUNDS	3,205	3,067	138	-
DEPARTMENT OF TRANSPORTATION, TOTAL	330,134	-	105,720	224,414
COAST GUARD	18,700	-	5,000	13,700
FEDERAL AVIATION ADMINISTRATION	181,323	-	25,759	155,564
FEDERAL HIGHWAY ADMINISTRATION	75,364	-	42,940	32,424
FEDERAL RAILROAD ADMINISTRATION	8,527	-	6,827	1,700
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	34,400	-	23,000	11,400
OFFICE OF THE SECRETARY	8,126	-	1,794	6,332
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	1,694	-	400	1,294
URBAN MASS TRANSPORTATION ADMINISTRATION	2,000	-	-	2,000
DEPARTMENT OF THE TREASURY, TOTAL	31,144	3,945	16,691	10,508
BUREAU OF ENGRAVING AND PRINTING	4,775	425	2,966	1,384
INTERNAL REVENUE SERVICE	17,102	3,420	13,340	342
OFFICE OF PROTECTIVE RESEARCH	735	100	385	250
UNITED STATES CUSTOMS SERVICE	7,803	-	-	7,803
UNITED STATES MINT	729	-	-	729
DEPARTMENT OF VETERANS AFFAIRS	203,400	15,800	169,300	18,300
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,395	-	1,395	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	169,488	537	108,375	60,576
CONSUMER PRODUCT SAFETY COMMISSION	625	-	89	536
ENVIRONMENTAL PROTECTION AGENCY	420,727	76,249	262,182	82,296
FEDERAL COMMUNICATIONS COMMISSION	1,295	-	1,295	-
FEDERAL HOME LOAN BANK BOARD	4,162	-	4,162	-
FEDERAL TRADE COMMISSION	452	-	452	-
GENERAL SERVICES ADMINISTRATION 3/	765	150	615	-
INTERNATIONAL TRADE COMMISSION	9,420	-	9,420	-
LIBRARY OF CONGRESS	9,154	583	1,607	6,964
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	6,870,364	1,462,086	1,584,201	3,824,077
NATIONAL ARCHIVES	696	256	330	110
NATIONAL SCIENCE FOUNDATION	1,880,995	1,754,103	126,892	-
NUCLEAR REGULATORY COMMISSION	129,966	-	129,966	-
SMITHSONIAN INSTITUTION	87,052	87,052	-	-
TENNESSEE VALLEY AUTHORITY	49,997	2,242	12,516	35,239
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	200	-	200	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

2/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

3/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1988

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES: INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	56,935.1	14,280.9	26,719.2	1,911.3	7,827.7	3,473.9	1,682.6	505.6	142.1	391.8
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,016.6	693.8	6.3	-	304.9	-	6.3	-	1.6	3.7
AGRICULTURAL COOPERATIVE SERVICE	2.7	2.5	-	-	.2	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1.6	1.2	.1	-	.3	-	-	-	.1	-
AGRICULTURAL RESEARCH SERVICE	505.7	491.8	-	-	11.8	-	1.9	-	.1	.1
ANIMAL & PLANT HEALTH INSPECTION SVC	5.6	5.4	-	-	.2	-	*	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	298.4	13.8	3.7	-	275.9	-	4.0	-	1.0	-
ECONOMIC RESEARCH SERVICE	48.1	45.8	-	-	2.3	-	-	-	-	-
FEDERAL GRAIN INSPECTION SERVICE	1.0	.9	-	-	.1	-	-	-	-	-
FOREST SERVICE	135.5	121.0	.7	-	12.9	-	.4	-	.4	*
HUMAN NUTRITION INFORMATION SERVICE	8.2	5.7	1.8	-	.7	-	-	-	-	-
NAT'L AGRICULUTURAL STATISTICAL SVC	3.6	3.4	-	-	.2	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	5.0	1.2	-	-	.2	-	-	-	-	3.6
OFFICE OF TRANSPORTATION	1.1	1.1	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	388.9	316.4	20.5	-	35.9	.2	9.3	-	6.5	.1
BUREAU OF THE CENSUS	5.7	4.6	-	-	1.1	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	4.2	.3	.1	-	.1	-	3.7	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	107.9	102.8	.8	-	3.9	.1	.3	-	-	.1
NAT'L OCEANIC & ATMOSPHERIC ADMIN	263.0	200.5	19.7	-	30.9	.1	5.3	-	6.5	.1
NAT'L TELECOMM & INFORMATION ADMIN	8.1	8.1	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	35,415.1	9,046.1	23,294.6	315.7	1,071.0	828.7	224.0	397.1	.3	237.7
DEPARTMENT OF THE ARMY	4,806.0	1,710.1	2,727.7	28.8	123.8	138.2	47.8	12.9	-	16.9
DEPARTMENT OF THE NAVY	9,514.1	2,983.6	5,679.0	167.9	434.9	13.5	119.2	38.6	-	77.3
DEPARTMENT OF THE AIR FORCE	15,033.6	2,972.1	11,490.7	8.4	199.8	68.7	25.5	251.4	-	17.0
DEFENSE AGENCIES	5,832.9	1,286.9	3,313.6	110.6	310.1	607.7	31.5	83.5	-	88.9
TEST AND EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	160.3	35.5	79.3	-	2.4	.6	-	4.8	.3	37.5
DIRECTOR, OPERATIONAL TEST AND EVALUATION	68.2	57.9	4.3	-	-	-	-	6.0	-	-
DEPARTMENT OF EDUCATION	140.7	12.5	8.3	-	93.5	-	24.1	-	2.0	.2
DEPARTMENT OF ENERGY	5,036.4	244.7	737.0	1,535.5	405.8	1,944.6	75.8	91.5	.6	.8
DEPT OF HLTH & HUMAN SERVICES, TOTAL	7,158.0	1,408.4	280.1	15.2	4,254.9	27.3	1,034.2	8.4	84.6	45.0
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	554.8	149.7	16.0	-	312.7	.2	55.0	-	17.3	3.9
CENTERS FOR DISEASE CONTROL	88.7	60.8	4.3	-	10.5	-	11.8	-	.3	1.1
FOOD & DRUG ADMINISTRATION	91.0	83.8	-	-	5.1	-	2.1	-	-	-
HEALTH CARE FINANCING ADMIN	28.2	.2	8.4	-	9.0	-	9.7	-	.7	.1
HEALTH RESOURCES AND SERVICES ADMINISTRATION	10.0	2.7	-	-	4.9	-	1.0	-	1.5	-
HUMAN DEVELOPMENT SERVICES	54.0	3.7	2.2	-	17.8	-	19.1	-	11.2	-
NATIONAL INSTITUTES OF HEALTH	6,290.9	1,091.9	243.4	15.2	3,886.3	27.0	926.9	8.4	52.0	39.7
OFFICE OF ASST'T SECY FOR HEALTH	21.0	10.7	3.4	-	4.7	-	1.9	-	.1	.2
OFFICE OF THE SECRETARY	4.7	1.4	1.8	-	.6	-	.9	-	.1	-
SOCIAL SECURITY ADMINISTRATION	14.7	3.6	.6	-	3.2	-	5.8	-	1.4	-
DEPT OF HOUSING & URBAN DEVELOPMENT	18.4	13.9	3.2	-	.1	-	1.3	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	416.8	353.0	23.4	3.6	35.1	-	.2	-	1.3	.2
BUREAU OF LAND MANAGEMENT	3.7	3.0	-	-	.6	-	-	-	.1	-
BUREAU OF MINES	91.3	63.4	14.6	3.6	9.8	-	-	-	-	-
BUREAU OF RECLAMATION	4.4	4.2	*	-	.2	-	-	-	-	-
GEOLOGICAL SURVEY 2/	236.1	211.2	8.1	-	15.6	-	.1	-	1.1	-
MINERAL MANAGEMENT SERVICE	1.2	.5	.2	.1	.2	-	.1	-	-	.2
NATIONAL PARK SERVICE	19.4	13.8	-	-	5.5	-	*	-	-	-
OFFICE OF THE SECRETARY	.4	*	.3	-	-	-	.1	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1.0	.3	.2	-	.4	-	-	-	.1	-
US FISH & WILDLIFE SERVICE	59.2	56.5	-	-	2.7	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	43.1	17.8	6.2	-	6.4	-	7.6	-	5.1	-
DRUG ENFORCEMENT ADMINISTRATION	2.5	.7	1.8	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	12.7	12.7	-	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	6.0	1.4	.1	-	-	-	.5	-	4.0	-
IMMIGRATION & NATURALIZATION SVC	.3	*	.3	-	-	-	-	-	-	-
OFFICE OF JUSTICE PROGRAMS	21.5	2.9	4.0	-	6.4	-	7.0	-	1.2	-

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1988

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES: INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF LABOR, TOTAL	35.6	8.7	9.7	-	5.5	-	5.7	-	6.0	*
BUREAU OF LABOR STATISTICS	7.0	2.6	-	-	4.4	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	.1	.1	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	14.9	.7	3.9	-	.5	-	4.0	-	5.8	-
LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS 3/	.4	*	*	-	.3	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4.2	.4	3.8	-	-	-	-	-	-	-
OFFICE OF PENSION & WELFARE BENEFITS	2.7	.7	.9	-	.2	-	.9	-	-	-
OFFICE OF THE SECRETARY	6.1	4.2	.8	-	.1	-	.9	-	.1	*
PENSION BENEFIT GUARANTEE CORPORATION	.3	*	.3	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	4.2	.2	*	-	1.2	-	2.6	*	-	-
DEPARTMENTAL FUNDS	4.2	.2	*	-	1.2	-	2.6	*	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	304.0	147.9	101.9	-	16.8	0.1	14.4	-	18.9	3.9
COAST GUARD	21.1	15.9	4.8	-	.4	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	160.5	103.7	51.1	-	.5	-	5.2	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	73.5	3.4	38.2	-	12.3	*	.8	-	15.2	3.5
FEDERAL RAILROAD ADMINISTRATION	10.0	4.0	.7	-	.1	-	5.2	-	-	-
MARITIME ADMINISTRATION	.5	*	.4	-	.1	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	28.3	12.7	6.4	-	2.0	.1	3.2	-	3.5	.4
OFFICE OF THE SECRETARY	5.7	5.3	.2	-	.2	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2.1	2.0	*	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	2.3	.8	-	-	1.3	-	-	-	.3	-
DEPARTMENT OF THE TREASURY, TOTAL	26.1	12.3	13.8	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	2.0	1.6	.4	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	14.4	10.4	4.1	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	.4	.1	.2	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	9.2	.2	9.0	-	-	-	-	-	-	-
UNITED STATES MINT	.1	*	.1	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	215.3	212.5	-	-	2.3	-	.5	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.8	1.8	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	204.4	4.3	30.4	-	49.5	-	40.2	-	-	80.0
APPALACHIAN REGIONAL COMMISSION	.2	*	.1	-	.1	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1.1	.6	.3	-	.1	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	347.4	90.6	161.1	-	57.9	.1	28.5	-	9.1	-
FEDERAL COMMUNICATIONS COMMISSION	1.2	1.2	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	3.4	3.3	.1	-	*	-	-	-	-	-
FEDERAL TRADE COMMISSION	.4	.4	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION 4/	2.3	2.2	.1	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	8.1	8.1	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	7.1	6.8	.3	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	4,330.4	1,335.2	1,961.9	-	337.9	559.6	112.9	0.8	4.7	17.4
NATIONAL ARCHIVES	.7	.4	-	-	-	.1	-	-	-	.1
NATIONAL SCIENCE FOUNDATION	1,532.8	162.0	50.1	0.9	1,143.4	88.6	84.7	.1	1.4	1.6
NUCLEAR REGULATORY COMMISSION	108.5	22.3	9.0	40.4	3.6	22.0	2.2	7.7	-	1.1
SMITHSONIAN INSTITUTION	75.1	75.1	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	87.3	77.9	-	-	1.5	-	7.8	-	*	-
US ARMS CONTROL & DISARMAMENT AGENCY	3.4	*	.6	*	*	2.6	.1	-	-	-
UNITED STATES INFORMATION AGENCY	.4	.3	.1	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

3/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

4/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT BY AGENCY AND PERFORMER: FISCAL YEAR 1989 (EST.)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	61,902.0	15,795.1	29,042.4	2,008.3	8,285.9	3,740.3	1,908.8	592.5	166.7	362.1
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,049.3	719.3	6.1	-	314.3	-	6.9	-	1.5	1.1
AGRICULTURAL COOPERATIVE SERVICE	2.7	2.4	-	-	.3	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1.6	1.6	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	525.0	511.0	-	-	11.9	-	1.9	-	.1	.1
ANIMAL & PLANT HEALTH INSPECTION SVC	7.5	7.0	-	-	.4	-	*	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	307.9	13.6	3.9	-	284.9	-	4.5	-	1.0	-
ECONOMIC RESEARCH SERVICE	49.6	48.1	-	-	1.5	-	-	-	-	-
FEDERAL GRAIN INSPECTION SERVICE	1.1	1.0	-	-	.1	-	.1	-	-	-
FOREST SERVICE	137.9	123.2	.7	-	13.2	-	.4	-	.4	*
HUMAN NUTRITION INFORMATION SERVICE	8.8	5.7	1.6	-	1.5	-	-	-	-	-
NAT'L AGRICULUTURAL STATISTICAL SVC	3.7	3.4	-	-	.3	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	2.5	1.2	-	-	.3	-	-	-	-	1.0
OFFICE OF TRANSPORTATION	1.1	1.1	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	405.5	327.6	18.9	-	44.7	.2	6.1	-	8.1	.1
BUREAU OF THE CENSUS	5.4	4.9	-	-	.5	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1.2	.1	1	-	.4	-	.6	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	123.4	110.6	.8	-	11.5	.1	.3	-	-	.1
NAT'L OCEANIC & ATMOSPHERIC ADMIN	267.6	204.1	18.0	-	32.2	.1	5.2	-	8.1	*
NAT'L TELECOMM & INFORMATION ADMIN	7.9	7.9	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	37,630.4	9,749.8	24,684.2	351.2	1,058.1	882.2	182.1	481.5	.3	241.2
DEPARTMENT OF THE ARMY	5,350.9	2,033.8	2,949.6	28.3	117.9	154.2	34.5	14.4	-	18.3
DEPARTMENT OF THE NAVY	9,617.5	3,272.9	5,627.8	157.7	353.4	8.4	73.8	39.9	-	83.5
DEPARTMENT OF THE AIR FORCE	15,266.7	2,848.0	11,798.9	28.6	188.6	38.4	24.0	319.7	-	20.4
DEFENSE AGENCIES	7,188.5	1,520.3	4,222.2	136.7	395.9	680.6	49.7	100.3	-	82.9
TEST AND EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	154.5	34.2	76.4	-	2.3	.6	-	4.6	.3	36.2
DIRECTOR, OPERATIONAL TEST AND EVALUATION	52.3	40.6	9.2	-	-	-	-	2.6	-	-
DEPARTMENT OF EDUCATION	161.1	14.7	8.4	-	106.7	-	28.5	-	2.6	.2
DEPARTMENT OF ENERGY	5,478.9	227.8	921.4	1,590.5	443.8	2,092.3	103.6	91.8	6.4	1.3
DEPT OF HLTH & HUMAN SERVICES, TOTAL	7,888.0	1,617.3	324.9	17.4	4,518.2	31.0	1,216.0	10.4	101.6	51.2
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	679.0	189.4	19.7	-	380.5	.4	63.1	-	21.7	4.3
CENTERS FOR DISEASE CONTROL	101.7	72.5	4.3	-	11.0	-	12.5	-	.3	1.2
FOOD & DRUG ADMINISTRATION	99.0	91.8	-	-	5.2	-	2.0	-	-	-
HEALTH CARE FINANCING ADMIN	50.5	.4	12.4	-	13.2	-	23.3	-	.8	.3
HEALTH RESOURCES AND SERVICES ADMINISTRATION	10.0	2.1	-	-	5.2	-	1.1	-	1.6	-
HUMAN DEVELOPMENT SERVICES	104.7	3.9	4.3	-	31.4	-	47.7	-	17.6	-
NATIONAL INSTITUTES OF HEALTH	6,791.7	1,242.9	277.3	17.4	4,055.5	30.6	1,054.1	9.5	59.2	45.1
OFFICE OF ASST'T SECY FOR HEALTH	27.7	9.2	5.1	-	9.7	-	3.3	-	-	.3
OFFICE OF THE SECRETARY	7.9	1.4	1.5	-	4.0	-	1.0	-	-	-
SOCIAL SECURITY ADMINISTRATION	15.7	3.7	.3	-	2.5	-	7.9	.8	.5	-
DEPT OF HOUSING & URBAN DEVELOPMENT	18.2	12.4	4.1	-	.2	-	1.6	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	432.3	351.7	36.1	3.6	39.6	-	*	-	1.2	.1
BUREAU OF LAND MANAGEMENT	3.7	3.0	-	-	.6	-	-	-	.1	-
BUREAU OF MINES	102.3	61.7	25.6	3.6	11.5	-	-	-	-	-
BUREAU OF RECLAMATION	3.9	3.7	*	-	.2	-	-	-	-	-
GEOLOGICAL SURVEY 2/	240.0	211.8	9.8	-	17.3	-	*	-	1.1	-
MINERAL MANAGEMENT SERVICE	1.2	.6	.1	.1	.3	-	-	-	-	.1
NATIONAL PARK SERVICE	19.2	14.0	-	-	5.2	-	-	-	-	-
OFFICE OF THE SECRETARY	.4	*	.4	-	-	-	-	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1.0	.4	.3	-	.4	-	-	-	-	-
US FISH & WILDLIFE SERVICE	60.6	56.5	-	-	4.1	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	40.2	12.4	6.2	-	5.7	*	10.7	-	5.0	.1
DRUG ENFORCEMENT ADMINISTRATION	1.9	.4	1.5	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	6.6	6.6	-	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	6.1	1.7	.1	-	-	*	.5	-	3.8	-
IMMIGRATION & NATURALIZATION SVC	.4	*	.4	-	-	-	-	-	-	-
OFFICE OF JUSTICE PROGRAMS	25.1	3.7	4.3	-	5.7	-	10.2	-	1.2	.1

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1989 (EST.)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES: INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF LABOR, TOTAL	32.5	6.6	9.1	-	5.6	-	6.6	-	4.7	-
BUREAU OF LABOR STATISTICS	7.2	2.7	-	-	4.5	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	.2	.2	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	12.8	.8	2.7	-	.7	-	4.2	-	4.4	-
LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS 3/	.4	*	*	-	.3	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4.4	.4	4.0	-	-	-	-	-	-	-
OFFICE OF PENSION & WELFARE BENEFITS	1.3	.4	.4	-	-	-	.5	-	-	-
OFFICE OF THE SECRETARY	5.9	2.0	1.6	-	.1	-	1.8	-	.3	-
PENSION BENEFIT GUARANTEE CORPORATION	.3	*	.3	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	4.1	.2	.1	-	1.3	-	2.6	-	-	-
DEPARTMENTAL FUNDS	4.1	.2	.1	-	1.3	-	2.6	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	335.0	183.3	90.2	0.2	22.7	0.1	15.0	-	19.1	4.4
COAST GUARD	18.5	12.9	5.3	-	.3	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	179.6	140.3	30.4	-	1.6	-	7.2	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	82.0	3.3	42.0	-	17.4	-	-	-	15.5	3.8
FEDERAL RAILROAD ADMINISTRATION	11.5	5.6	.7	-	.1	-	5.2	-	-	-
MARITIME ADMINISTRATION	.3	.1	-	.2	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	33.6	14.4	10.3	-	2.0	.1	2.7	-	3.6	.6
OFFICE OF THE SECRETARY	5.7	4.2	1.4	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	1.7	1.7	*	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	2.1	.9	-	-	1.2	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	29.8	13.3	16.1	-	.2	.2	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	4.4	2.5	1.7	-	-	.2	-	-	-	-
INTERNAL REVENUE SERVICE	14.4	10.4	3.8	-	.2	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	.7	.2	.5	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	7.7	.2	7.5	-	-	-	-	-	-	-
UNITED STATES MINT	2.5	*	2.5	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	235.6	232.8	-	-	2.3	-	.5	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.4	1.4	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	140.6	3.8	14.5	-	45.0	-	36.2	-	-	41.1
APPALACHIAN REGIONAL COMMISSION	.4	*	.4	-	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1.4	.8	.5	-	.1	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	385.9	120.7	166.6	-	64.3	.3	24.0	-	10.1	-
FEDERAL COMMUNICATIONS COMMISSION	1.2	1.2	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	4.0	3.8	.2	-	*	-	-	-	-	-
FEDERAL TRADE COMMISSION	.4	.4	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION 4/	1.7	1.6	-	-	-	-	.1	-	-	-
INTERNATIONAL TRADE COMMISSION	8.0	8.0	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	7.5	7.2	.4	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	5,688.4	1,871.9	2,668.7	-	359.0	617.5	148.5	0.8	4.7	17.4
NATIONAL ARCHIVES	.7	.3	.1	-	-	.2	-	-	-	.1
NATIONAL SCIENCE FOUNDATION	1,663.6	166.4	55.0	.9	1,249.5	93.1	95.4	-	1.6	1.7
NUCLEAR REGULATORY COMMISSION	115.9	23.9	9.8	44.2	4.0	21.7	2.0	8.1	-	2.2
SMITHSONIAN INSTITUTION	79.0	79.0	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	58.6	35.3	-	-	.6	-	22.7	-	*	-
US ARMS CONTROL & DISARMAMENT AGENCY	2.3	*	.5	.1	*	1.6	-	-	-	-
UNITED STATES INFORMATION AGENCY	.2	.1	.1	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

3/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

4/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1990 (EST.)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES: INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	66,084.0	16,725.7	31,329.3	2,071.3	8,825.7	4,151.1	1,855.6	556.0	159.9	409.3
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,045.2	741.6	6.0	-	292.1	-	3.4	-	1.5	.5
AGRICULTURAL COOPERATIVE SERVICE	1.4	1.1	-	-	.3	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	546.3	532.3	-	-	11.9	-	1.9	-	.1	.1
ANIMAL & PLANT HEALTH INSPECTION SVC	7.2	6.7	-	-	.4	-	.1	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	279.4	12.9	3.6	-	260.9	-	1.1	-	1.0	-
ECONOMIC RESEARCH SERVICE	51.7	50.3	-	-	1.5	-	-	-	-	-
FEDERAL GRAIN INSPECTION SERVICE	1.1	1.0	-	-	.1	-	-	-	-	-
FOREST SERVICE	142.5	126.4	.7	-	14.5	-	.4	-	.4	*
HUMAN NUTRITION INFORMATION SERVICE	9.5	5.8	1.7	-	2.0	-	-	-	-	-
NAT'L AGRICULUTURAL STATISTICAL SVC	3.7	3.4	-	-	.3	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	1.8	1.2	-	-	.3	-	-	-	-	.4
OFFICE OF TRANSPORTATION	.6	.6	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	310.4	280.8	13.8	-	13.7	.2	1.8	-	-	.1
BUREAU OF THE CENSUS	5.5	5.0	-	-	.5	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	118.4	113.1	1.4	-	3.4	.1	.3	-	-	.1
NAT'L OCEANIC & ATMOSPHERIC ADMIN	178.1	154.4	12.3	-	9.8	.1	1.5	-	-	*
NAT'L TELECOMM & INFORMATION ADMIN	8.3	8.3	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	40,242.0	10,495.0	26,346.3	383.4	1,061.8	1,123.7	131.6	436.2	.5	263.5
DEPARTMENT OF THE ARMY	5,843.1	2,192.7	3,303.4	36.8	135.6	114.9	31.9	9.5	-	18.3
DEPARTMENT OF THE NAVY	10,372.6	3,536.6	6,178.3	145.1	345.2	10.9	29.6	40.4	-	86.5
DEPARTMENT OF THE AIR FORCE	15,068.7	2,758.9	11,731.9	34.9	209.0	39.2	26.2	262.8	-	5.9
DEFENSE AGENCIES	8,538.0	1,823.1	4,977.6	166.6	367.9	957.7	43.8	112.5	-	88.8
TEST AND EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	273.3	60.5	135.2	-	4.1	1.0	-	8.2	.5	64.0
DIRECTOR, OPERATIONAL TEST AND EVALUATION	146.2	123.2	20.0	-	-	-	-	3.0	-	-
DEPARTMENT OF EDUCATION	143.9	16.9	10.7	-	90.9	-	22.1	.4	2.8	.1
DEPARTMENT OF ENERGY	5,282.0	161.7	738.9	1,612.0	411.3	2,196.5	62.0	98.2	.7	.8
DEPT OF HLTH & HUMAN SERVICES, TOTAL	8,375.9	1,666.7	329.7	17.4	4,946.8	31.2	1,216.0	10.4	106.3	51.4
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	763.7	219.9	21.9	-	420.2	.5	70.6	-	24.5	6.1
CENTERS FOR DISEASE CONTROL	105.0	76.6	4.6	-	11.0	-	12.5	-	.3	-
FOOD & DRUG ADMINISTRATION	108.0	100.8	-	-	5.2	-	2.0	-	-	-
HEALTH CARE FINANCING ADMIN	37.0	.4	11.1	-	11.8	-	12.9	-	.7	.1
HEALTH RESOURCES AND SERVICES ADMINISTRATION	10.3	2.4	-	-	5.2	-	1.1	-	1.6	-
HUMAN DEVELOPMENT SERVICES	105.4	4.0	4.1	-	31.0	-	46.8	-	19.5	-
NATIONAL INSTITUTES OF HEALTH	7,177.2	1,240.8	277.1	17.4	4,442.0	30.7	1,055.3	9.4	59.3	45.1
OFFICE OF ASST'T SECY FOR HEALTH	47.8	16.5	9.2	-	16.2	-	5.8	-	-	.1
OFFICE OF THE SECRETARY	5.0	1.5	1.5	-	1.0	-	1.0	-	-	-
SOCIAL SECURITY ADMINISTRATION	16.6	3.7	.3	-	3.1	-	7.9	1.0	.5	-
DEPT OF HOUSING & URBAN DEVELOPMENT	21.8	13.1	5.4	-	.2	-	3.1	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	387.6	348.9	10.6	3.1	23.6	-	*	-	1.3	.1
BUREAU OF LAND MANAGEMENT	3.0	2.3	-	-	.6	-	-	-	.1	-
BUREAU OF MINES	72.3	68.5	.2	3.0	.7	-	-	-	-	-
BUREAU OF RECLAMATION	4.5	4.2	*	-	.3	-	-	-	-	-
GEOLOGICAL SURVEY 2/	231.8	209.5	9.5	-	11.7	-	*	-	1.1	-
MINERAL MANAGEMENT SERVICE	1.2	.6	.1	.1	.3	-	-	-	-	.1
NATIONAL PARK SERVICE	19.5	14.2	-	-	5.3	-	-	-	-	-
OFFICE OF THE SECRETARY	.5	*	.5	-	-	-	-	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1.6	.5	.3	-	.7	-	-	-	.1	-
US FISH & WILDLIFE SERVICE	53.2	49.1	-	-	4.1	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	34.7	11.5	7.7	-	4.0	-	7.9	-	3.5	-
DRUG ENFORCEMENT ADMINISTRATION	1.9	.4	1.5	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	6.7	6.7	-	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	4.2	2.0	.1	-	-	-	.1	-	1.9	-
IMMIGRATION & NATURALIZATION SVC	.4	*	.4	-	-	-	-	-	-	-
OFFICE OF JUSTICE PROGRAMS	21.5	2.4	5.7	-	4.0	-	7.9	-	1.6	-

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1990 (EST.)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF LABOR, TOTAL	36.0	7.3	8.4	-	5.9	-	6.8	-	7.6	-
BUREAU OF LABOR STATISTICS	8.2	3.5	-	-	4.7	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	.2	.2	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	17.1	.8	2.8	-	.8	-	5.2	-	7.6	-
LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS 3/	.4	*	*	-	.3	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4.4	.4	4.0	-	-	-	-	-	-	-
OFFICE OF PENSION & WELFARE BENEFITS	2.4	.4	1.0	-	-	-	1.0	-	-	-
OFFICE OF THE SECRETARY	3.2	2.0	.4	-	.1	-	.6	-	.1	-
PENSION BENEFIT GUARANTEE CORPORATION	.2	*	.2	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	3.2	.2	.1	-	.4	-	2.6	-	-	-
DEPARTMENTAL FUNDS	3.2	.2	.1	-	.4	-	2.6	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	330.1	179.0	82.0	-	26.9	0.4	20.9	-	19.7	1.2
COAST GUARD	18.7	13.0	5.4	-	.3	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	181.3	134.6	31.2	-	.3	-	15.2	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	75.4	3.7	33.2	-	23.3	-	-	-	14.9	.2
FEDERAL RAILROAD ADMINISTRATION	8.5	4.3	.8	-	*	-	3.4	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	34.4	16.0	9.3	-	2.0	.1	2.3	-	3.8	1.0
OFFICE OF THE SECRETARY	8.1	5.8	2.1	-	-	.3	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	1.7	1.7	*	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	2.0	*	-	-	1.0	-	-	-	1.0	-
DEPARTMENT OF THE TREASURY, TOTAL	31.1	14.4	16.5	-	*	.2	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	4.8	2.9	1.7	-	-	.2	-	-	-	-
INTERNAL REVENUE SERVICE	17.1	11.1	6.0	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	.7	.2	.5	-	*	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	7.8	.2	7.7	-	-	-	-	-	-	-
UNITED STATES MINT	.7	*	.7	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	203.4	201.1	-	-	2.3	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.4	1.4	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	169.5	2.5	14.8	-	45.5	-	36.4	-	-	70.3
CONSUMER PRODUCT SAFETY COMMISSION	.6	.6	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	420.7	119.1	187.5	-	79.1	.3	25.2	-	9.6	-
FEDERAL COMMUNICATIONS COMMISSION	1.3	1.3	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	4.2	4.0	.2	-	*	-	-	-	-	-
FEDERAL TRADE COMMISSION	.5	.5	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION 4/	.8	.7	.1	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	9.4	9.4	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	9.2	8.8	.4	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	6,870.4	2,108.1	3,474.3	-	411.0	674.7	179.3	0.8	4.7	17.4
NATIONAL ARCHIVES	.7	.3	.1	-	-	.3	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,881.0	192.2	64.6	1.1	1,405.5	102.1	111.9	-	1.8	1.8
NUCLEAR REGULATORY COMMISSION	130.0	25.8	11.2	54.3	4.1	21.5	1.0	10.1	-	2.1
SMITHSONIAN INSTITUTION	87.1	87.1	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	50.0	25.9	-	-	.6	-	23.6	*	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	.2	*	.1	.1	*	-	*	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

3/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

4/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 10. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS), BY INDIVIDUAL FFRDC AND AGENCY: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS	TOTAL	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	NATIONAL AERO-NAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDA-TION	OTHER
TOTAL, ALL FFRDC'S	5,890,825	192	1,541,494	3,571,636	50,872	560,357	89,545	76,729
FFRDC'S ADMIN BY INDUSTRIAL FIRMS	1,911,314	-	315,686	1,535,531	15,241	-	868	43,988
BETTIS ATOMIC POWER LAB	350,859	-	81,089	269,770	-	-	-	-
ENERGY TECH ENGINEERING CTR	14,746	-	3,137	11,609	-	-	-	-
FREDERICK CANCER RSCH CENTER	13,600	-	-	-	13,600	-	-	-
HANFORD ENGINEERING DEV LAB	94,020	-	500	93,520	-	-	-	-
IDAHO NAT'L ENGINEERING LAB	104,112	-	2,902	83,726	-	-	-	17,484
KNOLLS ATOMIC POWER LAB	291,615	-	67,915	223,700	-	-	-	-
OAK RIDGE NATIONAL LAB	249,570	-	29,213	208,592	1,641	-	868	9,256
SANDIA NATIONAL LABORATORIES	732,811	-	130,930	584,633	-	-	-	17,248
SAVANNAH RIVER LABORATORY	59,981	-	-	59,981	-	-	-	-
FFRDC'S ADMIN BY UNIVS & COLS	3,473,924	192	828,673	1,944,633	27,252	559,567	88,618	24,989
AMES LABORATORY	17,657	4	91	17,562	-	-	-	-
ARGONNE NATIONAL LABORATORY	200,871	-	10,313	182,379	1,157	71	260	6,691
BROOKHAVEN NATIONAL LAB	195,112	106	8,344	168,039	6,879	-	646	11,098
CONTINUOUS ELECTRON BEAM ACCEL FACIL	9,225	-	5	9,220	-	-	-	-
E.O. LAWRENCE BERKELEY LAB	122,226	-	236	110,568	10,723	115	284	300
E.O. LAWRENCE LIVERMORE NAT'L LAB	905,311	81	294,128	607,280	2,045	539	80	1,158
FERMILAB	145,475	-	-	145,437	-	-	38	-
JET PROPULSION LABORATORY	678,811	-	120,330	400	-	557,894	57	130
LINCOLN LABORATORY	223,643	-	223,378	-	-	174	91	-
LOS ALAMOS NATIONAL LAB	665,812	-	152,318	503,218	4,822	18	8	5,428
NAT'L ASTRONOMY & IONOSPHERE CTR	6,752	-	-	-	-	-	6,752	-
NAT'L CENTER FOR ATMOSPHERIC RSCH	40,824	-	-	-	-	756	40,068	-
NAT'L OPTICAL ASTRONOMY OBSERVATORY	23,005	-	-	-	-	-	23,005	-
NAT'L RADIO ASTRONOMY OBSERVATORY	17,300	-	-	-	-	-	17,300	-
OAK RIDGE ASSOCIATED UNIVERSITIES	13,539	1	593	11,835	897	-	29	184
PLASMA PHYSICS LABORATORY	89,717	-	-	89,717	-	-	-	-
SOFTWARE ENGINEERING INSTITUTE	18,937	-	18,937	-	-	-	-	-
STANFORD LINEAR ACCELERATOR CTR	99,707	-	-	98,978	729	-	-	-
FFRDC'S ADMIN BY OTHER NONPROFIT INSTS	505,587	-	397,135	91,472	8,379	790	59	7,752
AEROSPACE CORPORATION	71,232	-	70,412	205	-	590	25	-
CENTER FOR NAVAL ANALYSIS	34,990	-	34,990	-	-	-	-	-
INST FOR DEFENSE ANALYSES	33,326	-	33,326	-	-	-	-	-
LOGISTICS MANAGEMENT INSTITUTE	2,013	-	2,013	-	-	-	-	-
MITRE CORP - C3 I DIVISION	234,259	-	234,259	-	-	-	-	-
NAT'L DEFENSE RESEARCH INSTITUTE	15,819	-	15,809	-	-	-	-	10
PACIFIC NORTHWEST LABORATORY	66,316	-	6,326	43,835	8,379	-	34	7,742
SOLAR ENERGY RESEARCH INST	47,632	-	-	47,432	-	200	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

31 BEST COPY AVAILABLE

TABLE 11. FEDERAL OBLIGATIONS FOR R&D PLANT
TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS),
BY INDIVIDUAL FFRDC AND AGENCY: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS	TOTAL	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	NATIONAL AERO-NAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDA-TION	OTHER
TOTAL, ALL FFRDC'S	745,793	-	71,784	638,253	-	19,056	16,700	-
FFRDC'S ADMIN BY INDUSTRIAL FIRMS	204,315	-	10,386	193,929	-	-	-	-
BETTIS ATOMIC POWER LAB	39,300	-	-	39,300	-	-	-	-
ENERGY TECH ENGINEERING CTR	966	-	-	966	-	-	-	-
HANFORD ENGINEERING DEV LAB	12,367	-	-	12,367	-	-	-	-
IDAHO NAT'L ENGINEERING LAB	2,940	-	-	2,940	-	-	-	-
KNOLLS ATOMIC POWER LAB	22,500	-	-	22,500	-	-	-	-
OAK RIDGE NATIONAL LAB	25,515	-	-	25,515	-	-	-	-
SANDIA NATIONAL LABORATORIES	100,707	-	10,386	90,321	-	-	-	-
SAVANNAH RIVER LABORATORY	20	-	-	20	-	-	-	-
FFRDC'S ADMIN BY UNIVS & COLS	535,324	-	60,998	438,570	-	19,056	16,700	-
AMES LABORATORY	2,979	-	-	2,979	-	-	-	-
ARGONNE NATIONAL LABORATORY	28,326	-	-	28,326	-	-	-	-
BROOKHAVEN NATIONAL LAB	39,812	-	-	39,812	-	-	-	-
CONTINUOUS ELECTRON BEAM ACCEL FACIL	34,500	-	-	34,500	-	-	-	-
E.O. LAWRENCE BERKELEY LAB	42,522	-	-	42,522	-	-	-	-
E.O. LAWRENCE LIVERMORE NAT'L LAB	120,428	-	694	119,734	-	-	-	-
FERMILAB	45,347	-	-	45,347	-	-	-	-
JET PROPULSION LABORATORY	19,056	-	-	-	-	19,056	-	-
LINCOLN LABORATORY	47,704	-	47,704	-	-	-	-	-
LOS ALAMOS NATIONAL LAB	101,781	-	12,600	89,181	-	-	-	-
NAT'L ASTRONOMY & IONOSPHERE CTR	100	-	-	-	-	-	100	-
NAT'L CENTER FOR ATMOSPHERIC RSCH	5,000	-	-	-	-	-	5,000	-
NAT'L RADIO ASTRONOMY OBSERVATORY	11,600	-	-	-	-	-	11,600	-
OAK RIDGE ASSOCIATED UNIVERSITIES	620	-	-	620	-	-	-	-
PLASMA PHYSICS LABORATORY	12,466	-	-	12,466	-	-	-	-
STANFORD LINEAR ACCELERATOR CTR	23,083	-	-	23,083	-	-	-	-
FFRDC'S ADMIN BY OTHER NONPROFIT INSTS	6,154	-	400	5,754	-	-	-	-
PACIFIC NORTHWEST LABORATORY	4,695	-	400	4,295	-	-	-	-
SOLAR ENERGY RESEARCH INST	1,459	-	-	1,459	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 12. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES: INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	9,473,618	2,050,264	596,894	133,037	4,868,297	989,811	728,644	17,673	42,709	46,289
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	480,588	321,802	591	-	151,325	-	2,321	-	922	3,627
AGRICULTURAL RESEARCH SERVICE	271,140	263,684	-	-	6,322	-	1,007	-	51	76
COOPERATIVE STATE RESEARCH SERVICE	145,824	7,289	200	-	136,694	-	1,139	-	502	-
ECONOMIC RESEARCH SERVICE	6,735	6,409	-	-	326	-	-	-	-	-
FOREST SERVICE	51,600	42,682	391	-	7,983	-	175	-	369	-
NAT'L AGRICULUTURAL STATISTICAL SVC	1,188	1,188	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	3,563	12	-	-	-	-	-	-	-	3,551
OFFICE OF TRANSPORTATION	538	538	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	30,858	26,517	239	-	3,693	110	299	-	-	-
BUREAU OF THE CENSUS	1,342	276	-	-	1,066	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	26,278	23,003	239	-	2,627	110	299	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	3,238	3,238	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	876,922	262,699	80,447	559	492,378	11,128	20,077	1,623	-	8,011
DEPARTMENT OF THE ARMY	165,727	81,864	9,772	-	67,556	133	4,106	476	-	1,820
DEPARTMENT OF THE NAVY	341,805	131,042	18,969	111	178,793	1,712	7,797	143	-	3,238
DEPARTMENT OF THE AIR FORCE	196,382	41,438	22,626	448	118,990	3,770	6,311	-	-	2,799
DEFENSE AGENCIES	173,008	8,355	29,080	-	127,039	5,513	1,863	1,004	-	154
DEPARTMENT OF EDUCATION	4,354	292	-	-	4,062	-	-	-	-	-
DEPARTMENT OF ENERGY	1,184,808	32,718	34,404	120,516	272,492	689,286	22,691	12,381	198	122
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,081,403	694,186	140,968	7,660	2,588,490	17,153	566,373	3,226	38,266	25,081
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	265,752	90,747	6,180	-	133,262	207	26,385	-	7,462	1,509
HEALTH RESOURCES AND SERVICES ADMINISTRATION	1,079	1,079	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	3,795,127	591,815	131,411	7,660	2,451,575	16,946	538,456	3,226	30,698	23,340
OFFICE OF ASST'T SECY FOR HEALTH	19,445	10,545	3,377	-	3,653	-	1,532	-	106	232
DEPARTMENT OF THE INTERIOR, TOTAL	126,464	108,088	-	3,550	14,139	-	-	-	687	-
BUREAU OF MINES	32,052	20,664	-	3,550	7,838	-	-	-	-	-
BUREAU OF RECLAMATION	100	100	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY 2/	89,512	83,793	-	-	5,032	-	-	-	687	-
US FISH & WILDLIFE SERVICE	4,800	3,531	-	-	1,269	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	7,590	1,028	315	-	2,965	-	3,132	-	150	-
OFFICE OF JUSTICE PROGRAMS	7,590	1,028	315	-	2,965	-	3,132	-	150	-
DEPARTMENT OF LABOR, TOTAL	360	60	300	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	360	60	300	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	3,116	195	-	-	340	-	2,581	-	-	-
DEPARTMENTAL FUNDS	3,116	195	-	-	340	-	2,581	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	4,805	3,493	1,312	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	52	52	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	4,659	3,347	1,312	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	94	94	-	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	17,300	17,300	-	-	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	3,005	32	-	-	545	-	2,428	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	27,196	5,330	9,002	-	12,738	126	-	-	-	-
LIBRARY OF CONGRESS	400	400	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,112,713	343,494	292,129	-	254,936	183,777	29,022	384	1,146	7,825
NATIONAL ARCHIVES	246	246	-	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,433,190	154,084	37,187	752	1,070,194	88,231	79,720	59	1,340	1,623
SMITHSONIAN INSTITUTION	75,096	75,096	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	3,204	3,204	-	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 13. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	10,464,433	2,332,276	787,178	143,669	5,178,189	1,084,380	825,352	19,432	47,521	46,436
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	491,427	335,473	556	-	151,136	-	2,307	-	882	1,073
AGRICULTURAL RESEARCH SERVICE	283,490	275,930	-	-	6,426	-	1,010	-	51	73
COOPERATIVE STATE RESEARCH SERVICE	145,103	6,888	200	-	136,375	-	1,139	-	501	-
ECONOMIC RESEARCH SERVICE	6,938	6,734	-	-	204	-	-	-	-	-
FOREST SERVICE	52,400	43,425	356	-	8,131	-	158	-	330	-
NAT'L AGRICULUTURAL STATISTICAL SVC	1,213	1,213	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	1,743	743	-	-	-	-	-	-	-	1,000
OFFICE OF TRANSPORTATION	540	540	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	32,048	28,170	251	-	3,206	113	308	-	-	-
BUREAU OF THE CENSUS	775	275	-	-	500	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	28,002	24,624	251	-	2,706	113	308	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	3,271	3,271	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	908,313	267,362	79,584	802	520,375	11,696	20,343	1,062	-	7,089
DEPARTMENT OF THE ARMY	174,857	90,264	13,135	373	65,595	253	3,018	48	-	2,171
DEPARTMENT OF THE NAVY	343,972	129,957	19,495	-	183,599	325	8,466	130	-	2,000
DEPARTMENT OF THE AIR FORCE	188,274	39,726	21,692	429	114,078	3,614	6,051	-	-	2,684
DEFENSE AGENCIES	201,210	7,415	25,262	-	157,103	7,504	2,808	884	-	234
DEPARTMENT OF EDUCATION	4,381	309	-	-	4,069	-	3	-	-	-
DEPARTMENT OF ENERGY	1,313,873	38,013	47,313	131,121	292,282	759,017	31,548	14,368	64	147
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,411,223	786,703	159,041	8,575	2,727,949	19,333	634,646	3,611	43,196	28,169
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	320,900	113,952	6,805	-	160,429	377	28,761	-	8,894	1,682
HEALTH RESOURCES AND SERVICES ADMINISTRATION	947	947	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	4,063,474	662,712	147,136	8,575	2,559,020	18,956	602,985	3,611	34,302	26,177
OFFICE OF ASST'T SECY FOR HEALTH	25,902	9,092	5,100	-	8,500	-	2,900	-	-	310
DEPARTMENT OF THE INTERIOR, TOTAL	147,268	117,554	7,733	2,378	18,903	-	-	-	700	-
BUREAU OF MINES	48,080	28,998	7,733	2,378	8,971	-	-	-	-	-
BUREAU OF RECLAMATION	100	100	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY 2/	94,288	85,583	-	-	8,005	-	-	-	700	-
US FISH & WILDLIFE SERVICE	4,800	2,873	-	-	1,927	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	9,733	2,028	-	-	1,400	-	6,034	-	150	121
OFFICE OF JUSTICE PROGRAMS	9,733	2,028	-	-	1,400	-	6,034	-	150	121
DEPARTMENT OF LABOR, TOTAL	336	15	-	-	-	-	321	-	-	-
EMPLOYMENT AND TRAINING ADMIN	336	15	-	-	-	-	321	-	-	-
DEPARTMENT OF STATE, TOTAL	3,086	180	-	-	349	-	2,557	-	-	-
DEPARTMENTAL FUNDS	3,086	180	-	-	349	-	2,557	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,377	2,555	602	-	220	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	477	477	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,885	2,073	592	-	220	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	15	5	10	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	19,400	19,400	-	-	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	1,821	108	-	-	681	-	1,032	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	44,134	7,786	18,231	-	17,867	250	-	-	-	-
LIBRARY OF CONGRESS	397	397	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,438,387	486,175	432,997	-	270,831	201,212	37,547	391	1,064	8,170
NATIONAL ARCHIVES	25	25	-	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,553,167	157,986	40,870	793	1,168,921	92,759	88,706	-	1,465	1,667
SMITHSONIAN INSTITUTION	78,967	78,967	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	3,070	3,070	-	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 14. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	11,200,587	2,373,628	814,994	149,610	5,663,232	1,235,696	840,472	26,157	49,953	46,845
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	511,949	348,793	591	-	158,908	-	2,283	-	901	473
AGRICULTURAL RESEARCH SERVICE	295,012	287,452	-	-	6,426	-	1,010	-	51	73
COOPERATIVE STATE RESEARCH SERVICE	152,769	7,636	200	-	143,346	-	1,099	-	488	-
ECONOMIC RESEARCH SERVICE	7,240	7,036	-	-	204	-	-	-	-	-
FOREST SERVICE	54,100	44,241	391	-	8,932	-	174	-	362	-
NAT'L AGRICULUTURAL STATISTICAL SVC	1,213	1,213	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	1,301	901	-	-	-	-	-	-	-	400
OFFICE OF TRANSPORTATION	314	314	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	31,271	27,686	294	-	2,858	116	317	-	-	-
BUREAU OF THE CENSUS	777	277	-	-	500	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	26,673	23,588	294	-	2,358	116	317	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	3,821	3,821	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	964,174	286,081	87,396	792	550,744	8,327	22,503	768	-	7,563
DEPARTMENT OF THE ARMY	207,374	96,316	15,857	300	88,591	184	3,457	350	-	2,319
DEPARTMENT OF THE NAVY	390,267	138,518	26,430	-	212,013	281	10,895	130	-	2,000
DEPARTMENT OF THE AIR FORCE	215,801	45,534	24,864	492	130,757	4,143	6,935	-	-	3,076
DEFENSE AGENCIES	150,732	5,713	20,245	-	119,383	3,719	1,216	288	-	168
DEPARTMENT OF EDUCATION	4,438	289	-	-	4,149	-	-	-	-	-
DEPARTMENT OF ENERGY	1,394,229	25,847	25,847	137,835	284,874	886,811	11,499	21,285	140	91
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,754,013	828,211	167,861	8,803	2,994,667	19,933	656,711	3,707	45,185	28,935
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	359,709	130,489	7,634	-	176,909	473	32,271	-	9,971	1,962
HEALTH RESOURCES AND SERVICES ADMINISTRATION	1,024	1,024	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	4,346,910	680,332	151,047	8,803	2,802,458	19,460	619,016	3,707	35,214	26,873
OFFICE OF ASST'T SECY FOR HEALTH	46,370	16,366	9,180	-	15,300	-	5,424	-	-	100
DEPARTMENT OF THE INTERIOR, TOTAL	128,514	119,411	-	1,325	7,092	-	-	-	686	-
BUREAU OF MINES	32,000	30,675	-	1,325	-	-	-	-	-	-
BUREAU OF RECLAMATION	100	100	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY 2/	92,214	86,363	-	-	5,165	-	-	-	686	-
US FISH & WILDLIFE SERVICE	4,200	2,273	-	-	1,927	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	5,588	900	750	-	750	-	2,688	-	500	-
OFFICE OF JUSTICE PROGRAMS	5,588	900	750	-	750	-	2,688	-	500	-
DEPARTMENT OF LABOR, TOTAL	341	10	-	-	-	-	331	-	-	-
EMPLOYMENT AND TRAINING ADMIN	341	10	-	-	-	-	331	-	-	-
DEPARTMENT OF STATE, TOTAL	3,067	161	-	-	349	-	2,557	-	-	-
DEPARTMENTAL FUNDS	3,067	161	-	-	349	-	2,557	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,945	2,690	1,230	-	25	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	425	425	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,420	2,215	1,205	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	100	50	25	-	25	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	15,800	15,800	-	-	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	537	108	-	-	408	-	21	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	76,249	8,150	33,595	-	34,204	300	-	-	-	-
GENERAL SERVICES ADMINISTRATION 3/	150	150	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	583	583	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,462,086	437,310	448,607	-	310,060	218,654	38,158	397	943	7,957
NATIONAL ARCHIVES	256	256	-	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,754,103	181,898	48,823	855	1,314,144	101,555	103,404	-	1,598	1,826
SMITHSONIAN INSTITUTION	87,052	87,052	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	2,242	2,242	-	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

3/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

35 BEST COPY AVAILABLE

TABLE 15. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE/ENGINEERING:FISCAL YEARS 1988, 1989, AND 1990

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE/ENGINEERING	ACTUAL, 1988	ESTIMATES	
		1989	1990
TOTAL, ALL FIELDS	9,473,618	10,464,433	11,200,587
LIFE SCIENCES, TOTAL	4,501,756	4,821,643	5,199,114
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	2,414,895	2,598,677	2,812,806
ENVIRONMENTAL BIOLOGY	146,763	153,572	177,682
AGRICULTURAL	293,669	300,859	314,262
MEDICAL	1,573,227	1,688,883	1,807,918
LIFE SCIENCES, NEC	73,202	79,652	86,446
PSYCHOLOGY, TOTAL	177,839	200,532	217,915
BIOLOGICAL ASPECTS	52,385	61,614	68,220
SOCIAL ASPECTS	40,941	47,473	49,893
PSYCHOLOGICAL SCIENCES, NEC	84,513	91,445	99,802
PHYSICAL SCIENCES, TOTAL	2,199,620	2,529,149	2,753,650
ASTRONOMY	458,524	541,021	608,484
CHEMISTRY	470,752	526,668	554,461
PHYSICS	1,205,504	1,383,049	1,505,937
PHYSICAL SCIENCES, NEC	64,840	78,411	84,768
ENVIRONMENTAL SCIENCES, TOTAL	872,666	993,408	1,047,624
ATMOSPHERIC	280,712	326,028	345,539
GEOLOGICAL	267,329	288,124	322,115
OCEANOGRAPHY	269,422	287,209	297,211
ENVIRONMENTAL SCIENCES, NEC	55,203	92,047	82,759
MATHEMATICS & COMPUTER SCIENCES, TOTAL	313,243	338,537	368,836
MATHEMATICS	165,371	169,696	182,952
COMPUTER SCIENCES	125,496	148,481	164,960
MATHEMATICS & COMPUTER SCIENCES, NEC	22,376	20,360	20,924
ENGINEERING, TOTAL	1,006,228	1,138,797	1,106,560
AERONAUTICAL	230,979	292,154	252,048
ASTRONAUTICAL	48,433	61,666	53,144
CHEMICAL	88,622	99,432	80,405
CIVIL	46,127	50,798	57,281
ELECTRICAL	153,957	160,187	174,393
MECHANICAL	83,549	88,047	94,404
METALLURGY & MATERIALS	230,116	251,806	254,678
ENGINEERING, NEC	124,445	134,707	140,207
SOCIAL SCIENCES, TOTAL	146,781	168,112	199,047
ANTHROPOLOGY	12,064	13,069	13,685
ECONOMICS	34,706	38,001	44,823
POLITICAL SCIENCE	5,101	6,376	6,052
SOCIOLOGY	36,800	47,211	63,382
SOCIAL SCIENCES, NEC	58,110	63,455	71,105
OTHER SCIENCES, NEC	255,485	274,255	307,841

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 16. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE/ENGINEERING: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	9,473,618	4,501,756	177,839	2,199,620	872,666	313,243	1,006,228	146,781	255,485
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	480,588	409,468	103	32,471	4,884	4,126	10,185	19,351	-
AGRICULTURAL RESEARCH SERVICE	271,140	244,114	-	23,590	1,036	306	2,094	-	-
COOPERATIVE STATE RESEARCH SERVICE	145,824	128,074	-	5,166	288	-	2,880	9,416	-
ECONOMIC RESEARCH SERVICE	6,735	-	-	-	-	-	-	6,735	-
FOREST SERVICE	51,600	33,179	103	3,715	3,560	2,632	5,211	3,200	-
NAT'L AGRICULTURAL STATISTICS SVC	1,188	-	-	-	-	1,188	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	3,563	3,563	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	538	538	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	30,858	-	255	21,034	3,381	1,582	4,606	-	-
BUREAU OF THE CENSUS	1,342	-	255	-	-	1,087	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	26,278	-	-	21,034	143	495	4,606	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	3,238	-	-	-	3,238	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	876,922	90,128	37,447	159,057	138,773	107,860	340,671	-	2,986
DEPARTMENT OF THE ARMY	165,727	44,317	4,823	31,117	10,148	12,870	62,273	-	179
DEPARTMENT OF THE NAVY	341,805	24,253	22,414	64,632	99,691	29,884	99,099	-	1,832
DEPARTMENT OF THE AIR FORCE	196,382	10,776	10,112	53,672	12,834	22,924	86,064	-	-
DEFENSE AGENCIES	173,008	10,782	98	9,636	16,100	42,182	93,235	-	975
DEPARTMENT OF EDUCATION	4,354	1,446	-	-	-	-	-	2,908	-
DEPARTMENT OF ENERGY	1,184,808	81,096	-	897,559	25,523	42,359	136,999	-	1,272
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,081,403	3,575,065	124,933	101,262	-	10,583	53,516	55,094	160,950
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	265,752	165,870	66,473	4,558	-	716	98	19,971	8,066
HEALTH RESOURCES AND SERVICES ADMINISTRATION	1,079	1,079	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	3,795,127	3,408,116	58,460	96,704	-	9,867	53,418	15,678	152,884
OFFICE OF ASST'T SECY FOR HEALTH	19,445	-	-	-	-	-	-	19,445	-
DEPARTMENT OF THE INTERIOR, TOTAL	126,464	4,800	-	8,132	82,227	1,877	29,428	-	-
BUREAU OF MINES	32,052	-	-	-	2,724	-	29,328	-	-
BUREAU OF RECLAMATION	100	-	-	-	-	-	100	-	-
GEOLOGICAL SURVEY 1/	89,512	-	-	8,132	79,503	1,877	-	-	-
US FISH & WILDLIFE SERVICE	4,800	4,800	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	7,590	253	130	-	-	100	-	5,462	1,645
OFFICE OF JUSTICE PROGRAMS	7,590	253	130	-	-	100	-	5,462	1,645
DEPARTMENT OF LABOR, TOTAL	360	-	-	-	-	-	-	360	-
EMPLOYMENT AND TRAINING ADMIN	360	-	-	-	-	-	-	360	-
DEPARTMENT OF STATE, TOTAL	3,116	-	-	-	-	-	-	3,116	-
DEPARTMENTAL FUNDS	3,116	-	-	-	-	-	-	3,116	-
DEPARTMENT OF THE TREASURY, TOTAL	4,805	-	94	30	-	2,972	22	1,687	-
BUREAU OF ENGRAVING AND PRINTING	52	-	-	30	-	-	22	-	-
INTERNAL REVENUE SERVICE	4,659	-	-	-	-	2,972	-	1,687	-
OFFICE OF PROTECTIVE RESEARCH	94	-	94	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	17,300	16,446	854	-	-	-	-	-	-
OTHER AGENCIES									
AGENCY FOR INTERNAT'L DEVELOPMENT	3,005	1,952	-	-	-	-	-	126	927
ENVIRONMENTAL PROTECTION AGENCY	27,196	10,605	-	3,687	5,977	-	6,927	-	-
LIBRARY OF CONGRESS	400	-	-	-	-	-	-	-	400
NATIONAL AERONAUTICS & SPACE ADMIN	1,112,713	27,871	2,270	573,538	215,142	19,416	267,950	186	6,340
NATIONAL ARCHIVES	246	-	-	246	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,433,190	252,686	11,753	385,414	391,056	122,368	155,924	33,024	80,965
SMITHSONIAN INSTITUTION	75,096	28,306	-	15,620	5,703	-	-	25,467	-
TENNESSEE VALLEY AUTHORITY	3,204	1,634	-	1,570	-	-	-	-	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 17. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE/ENGINEERING: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	10,464,433	4,821,643	200,532	2,529,149	993,408	338,537	1,138,797	168,112	274,255
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	491,427	418,339	105	33,183	4,988	4,403	10,443	19,966	-
AGRICULTURAL RESEARCH SERVICE	283,490	255,468	-	24,131	1,086	518	2,287	-	-
COOPERATIVE STATE RESEARCH SERVICE	145,103	126,895	-	5,279	286	-	2,863	9,780	-
ECONOMIC RESEARCH SERVICE	6,938	-	-	-	-	-	-	6,938	-
FOREST SERVICE	52,400	33,693	105	3,773	3,616	2,672	5,293	3,248	-
NAT'L AGRICULTURAL STATISTICS SVC	1,213	-	-	-	-	1,213	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	1,743	1,743	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	540	540	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	32,048	-	147	22,756	3,372	1,011	4,762	-	-
BUREAU OF THE CENSUS	775	-	147	-	-	628	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	28,002	-	-	22,756	101	383	4,762	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	3,271	-	-	-	3,271	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	908,313	92,323	41,035	169,367	141,281	111,652	350,612	-	2,043
DEPARTMENT OF THE ARMY	174,857	43,877	6,849	36,083	11,079	13,221	63,568	-	180
DEPARTMENT OF THE NAVY	343,972	26,143	23,420	67,242	97,720	30,377	97,207	-	1,863
DEPARTMENT OF THE AIR FORCE	188,274	10,332	9,695	51,456	12,305	21,978	82,508	-	-
DEFENSE AGENCIES	201,210	11,971	1,071	14,586	20,177	46,076	107,329	-	-
DEPARTMENT OF EDUCATION	4,381	1,480	-	-	-	-	-	2,901	-
DEPARTMENT OF ENERGY	1,313,873	91,557	-	1,005,214	32,563	43,189	140,055	-	1,295
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,411,220	3,847,618	143,074	109,093	-	11,489	57,341	68,486	174,122
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	320,900	197,590	80,497	5,556	-	924	127	25,761	10,445
HEALTH RESOURCES AND SERVICES ADMINISTRATION	947	947	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	4,063,474	3,649,081	62,577	103,537	-	10,565	57,214	16,823	163,677
OFFICE OF ASST'T SECY FOR HEALTH	25,902	-	-	-	-	-	-	25,902	-
DEPARTMENT OF THE INTERIOR, TOTAL	147,268	4,800	-	9,467	86,333	2,185	44,483	-	-
BUREAU OF MINES	48,080	-	-	-	3,697	-	44,383	-	-
BUREAU OF RECLAMATION	100	-	-	-	-	-	100	-	-
GEOLOGICAL SURVEY 1/	94,288	-	-	9,467	82,636	2,185	-	-	-
US FISH & WILDLIFE SERVICE	4,800	4,800	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	9,733	200	200	-	-	100	-	8,077	1,156
OFFICE OF JUSTICE PROGRAMS	9,733	200	200	-	-	100	-	8,077	1,156
DEPARTMENT OF LABOR, TOTAL	336	-	-	-	-	-	-	336	-
EMPLOYMENT AND TRAINING ADMIN	336	-	-	-	-	-	-	336	-
DEPARTMENT OF STATE, TOTAL	3,086	-	-	-	-	-	-	3,086	-
DEPARTMENTAL FUNDS	3,086	-	-	-	-	-	-	3,086	-
DEPARTMENT OF THE TREASURY, TOTAL	3,377	-	15	212	-	2,106	-	1,044	-
BUREAU OF ENGRAVING AND PRINTING	477	-	-	212	-	265	-	-	-
INTERNAL REVENUE SERVICE	2,885	-	-	-	-	1,841	-	1,044	-
OFFICE OF PROTECTIVE RESEARCH	15	-	15	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	19,400	18,306	1,094	-	-	-	-	-	-
OTHER AGENCIES									
AGENCY FOR INTERNAT'L DEVELOPMENT	1,821	1,410	-	-	-	-	-	327	84
ENVIRONMENTAL PROTECTION AGENCY	44,134	15,360	-	7,115	9,103	-	12,556	-	-
LIBRARY OF CONGRESS	397	-	-	-	-	-	-	-	397
NATIONAL AERONAUTICS & SPACE ADMIN	1,438,387	32,930	2,412	737,892	293,355	22,105	342,761	198	6,734
NATIONAL ARCHIVES	25	-	-	25	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,553,167	266,973	12,450	417,882	416,256	140,297	175,784	35,101	88,424
SMITHSONIAN INSTITUTION	78,967	28,853	-	15,367	6,157	-	-	28,590	-
TENNESSEE VALLEY AUTHORITY	3,070	1,494	-	1,576	-	-	-	-	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 18. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE/ENGINEERING: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	11,200,587	5,199,114	217,915	2,753,650	1,047,624	368,836	1,106,560	199,047	307,841
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	511,949	438,542	108	33,812	5,152	4,511	10,706	19,118	-
AGRICULTURAL RESEARCH SERVICE	295,012	265,850	-	25,112	1,130	539	2,381	-	-
COOPERATIVE STATE RESEARCH SERVICE	152,769	136,290	-	4,805	289	-	2,862	8,523	-
ECONOMIC RESEARCH SERVICE	7,240	-	-	-	-	-	-	7,240	-
FOREST SERVICE	54,100	34,787	108	3,895	3,733	2,759	5,463	3,355	-
NAT'L AGRICULTURAL STATISTICS SVC	1,213	-	-	-	-	1,213	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	1,301	1,301	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	314	314	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	31,271	-	147	22,647	3,923	1,002	3,552	-	-
BUREAU OF THE CENSUS	777	-	147	-	-	630	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	26,673	-	-	22,647	102	372	3,552	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	3,821	-	-	-	3,821	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	964,174	103,599	42,857	179,637	146,830	112,581	375,885	-	2,785
DEPARTMENT OF THE ARMY	207,374	53,915	6,886	38,687	13,488	16,699	77,479	-	220
DEPARTMENT OF THE NAVY	390,267	28,520	24,858	76,518	108,403	37,867	111,536	-	2,565
DEPARTMENT OF THE AIR FORCE	215,801	11,843	11,113	58,979	14,104	25,190	94,572	-	-
DEFENSE AGENCIES	150,732	9,321	-	5,453	10,835	32,825	92,298	-	-
DEPARTMENT OF EDUCATION	4,438	1,480	-	-	-	-	-	2,958	-
DEPARTMENT OF ENERGY	1,394,229	109,178	-	1,086,669	39,217	45,402	112,437	-	1,326
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,754,013	4,125,456	155,945	116,997	-	12,316	61,344	94,292	187,663
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	359,709	220,819	89,003	6,238	-	1,014	140	29,926	12,569
HEALTH RESOURCES AND SERVICES ADMINISTRATION	1,024	1,024	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	4,346,910	3,903,613	66,942	110,759	-	11,302	61,204	17,996	175,094
OFFICE OF ASST'T SECY FOR HEALTH	46,370	-	-	-	-	-	-	46,370	-
DEPARTMENT OF THE INTERIOR, TOTAL	128,514	4,200	-	9,222	84,259	2,128	28,705	-	-
BUREAU OF MINES	32,000	-	-	-	3,395	-	28,605	-	-
BUREAU OF RECLAMATION	100	-	-	-	-	-	100	-	-
GEOLOGICAL SURVEY 1/	92,214	-	-	9,222	80,864	2,128	-	-	-
US FISH & WILDLIFE SERVICE	4,200	4,200	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	5,588	100	100	-	-	100	-	5,288	-
OFFICE OF JUSTICE PROGRAMS	5,588	100	100	-	-	100	-	5,288	-
DEPARTMENT OF LABOR, TOTAL	341	-	-	-	-	-	-	341	-
EMPLOYMENT AND TRAINING ADMIN	341	-	-	-	-	-	-	341	-
DEPARTMENT OF STATE, TOTAL	3,067	-	-	-	-	-	-	3,067	-
DEPARTMENTAL FUNDS	3,067	-	-	-	-	-	-	3,067	-
DEPARTMENT OF THE TREASURY, TOTAL	3,945	-	100	225	-	2,382	-	1,238	-
BUREAU OF ENGRAVING AND PRINTING	425	-	-	225	-	200	-	-	-
INTERNAL REVENUE SERVICE	3,420	-	-	-	-	2,182	-	1,238	-
OFFICE OF PROTECTIVE RESEARCH	100	-	100	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	15,800	14,885	915	-	-	-	-	-	-
OTHER AGENCIES									
AGENCY FOR INTERNAT'L DEVELOPMENT	537	486	-	-	-	-	-	30	21
ENVIRONMENTAL PROTECTION AGENCY	76,249	27,522	-	15,228	20,432	-	13,067	-	-
GENERAL SERVICES ADMINISTRATION 2/	150	-	-	-	-	-	150	-	-
LIBRARY OF CONGRESS	583	-	-	-	-	-	-	-	583
NATIONAL AERONAUTICS & SPACE ADMIN	1,462,086	40,404	2,761	816,475	276,220	21,119	297,170	226	7,711
NATIONAL ARCHIVES	256	-	-	256	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,754,103	301,418	14,982	453,789	464,983	167,295	203,544	40,340	107,752
SMITHSONIAN INSTITUTION	87,052	30,511	-	17,784	6,608	-	-	32,149	-
TENNESSEE VALLEY AUTHORITY	2,242	1,333	-	909	-	-	-	-	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

2/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 19. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	9,176,368	3,288,117	2,045,577	322,171	2,154,613	575,016	571,177	65,188	60,395	94,114
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	504,618	341,310	5,730	-	152,926	-	3,897	-	681	74
AGRICULTURAL COOPERATIVE SERVICE	2,690	2,451	-	-	239	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,332	931	70	-	256	-	-	-	75	-
AGRICULTURAL RESEARCH SERVICE	208,236	202,506	-	-	4,860	-	773	-	39	58
ANIMAL & PLANT HEALTH INSPECTION SVC	5,637	5,354	-	-	246	-	37	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	152,621	6,540	3,537	-	139,192	-	2,860	-	492	-
ECONOMIC RESEARCH SERVICE	41,372	39,366	-	-	2,006	-	-	-	-	-
FEDERAL GRAIN INSPECTION SERVICE	602	508	-	-	94	-	-	-	-	-
FOREST SERVICE	79,900	74,344	349	-	4,889	-	227	-	75	16
HUMAN NUTRITION INFORMATION SERVICE	8,215	5,716	1,774	-	725	-	-	-	-	-
NAT'L AGRICULTURAL STATISTICS SVC	2,423	2,213	-	-	210	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	1,187	978	-	-	209	-	-	-	-	-
OFFICE OF TRANSPORTATION	403	403	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	311,472	264,570	5,907	-	27,814	82	6,480	-	6,470	149
BUREAU OF THE CENSUS	2,419	2,419	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	4,170	260	117	-	72	-	3,721	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	72,614	70,752	507	-	1,279	1	-	-	-	75
NAT'L OCEANIC & ATMOSPHERIC ADMIN	224,971	183,841	5,283	-	26,463	81	2,759	-	6,470	74
NAT'L TELECOMM & INFORMATION ADMIN	7,298	7,298	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,362,201	908,277	1,004,219	73,322	236,353	69,620	54,182	7,050	-	9,178
DEPARTMENT OF THE ARMY	587,990	383,436	134,097	10,472	31,606	6,267	15,962	372	-	5,778
DEPARTMENT OF THE NAVY	406,043	220,380	109,573	42,817	24,678	5,332	2,861	280	-	122
DEPARTMENT OF THE AIR FORCE	576,677	160,316	344,853	-	53,631	-	16,147	-	-	1,730
DEFENSE AGENCIES	791,491	144,145	415,696	20,033	126,438	58,021	19,212	6,398	-	1,548
DEPARTMENT OF EDUCATION	106,641	9,757	6,817	-	73,494	-	14,531	-	1,892	150
DEPARTMENT OF ENERGY	1,050,559	101,871	176,803	202,906	111,704	367,975	42,895	45,882	183	340
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,415,560	587,098	107,127	5,389	1,306,854	7,717	350,178	4,296	30,867	16,034
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	286,640	57,115	9,840	-	179,428	-	28,030	-	9,869	2,358
CENTERS FOR DISEASE CONTROL	88,722	60,782	4,291	-	10,511	-	11,808	-	250	1,080
FOOD & DRUG ADMINISTRATION	91,000	83,789	-	-	5,122	-	2,089	-	-	-
HEALTH CARE FINANCING ADMIN	28,156	222	8,419	-	9,017	-	9,749	-	651	98
HEALTH RESOURCES AND SERVICES ADMINISTRATION	8,953	1,603	-	-	4,850	-	986	-	1,514	-
HUMAN DEVELOPMENT SERVICES	7,130	615	340	-	2,242	-	2,650	-	1,283	-
NATIONAL INSTITUTES OF HEALTH	1,885,571	378,020	81,839	5,389	1,091,809	7,717	288,209	4,296	15,794	12,498
OFFICE OF THE SECRETARY	4,738	1,352	1,808	-	639	-	866	-	73	-
SOCIAL SECURITY ADMINISTRATION	14,650	3,600	590	-	3,236	-	5,791	-	1,433	-
DEPT OF HOUSING & URBAN DEVELOPMENT	6,282	4,988	902	-	51	-	341	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	266,016	233,471	11,155	54	20,550	-	156	-	463	167
BUREAU OF LAND MANAGEMENT	2,200	2,000	-	-	200	-	-	-	-	-
BUREAU OF MINES	54,118	42,656	9,537	-	1,925	-	-	-	-	-
BUREAU OF RECLAMATION	3,602	3,373	18	-	211	-	-	-	-	-
GEOLOGICAL SURVEY 2/	135,763	123,540	1,234	-	10,576	-	-	-	413	-
MINERAL MANAGEMENT SERVICE	1,187	531	155	54	225	-	55	-	-	167
NATIONAL PARK SERVICE	19,379	13,800	-	-	5,548	-	31	-	-	-
OFFICE OF THE SECRETARY	87	5	12	-	-	-	70	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	980	297	199	-	434	-	-	-	50	-
US FISH & WILDLIFE SERVICE	48,700	47,269	-	-	1,431	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	9,845	1,716	1,822	-	3,061	-	2,287	-	959	-
DRUG ENFORCEMENT ADMINISTRATION	600	200	400	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2,100	1,210	90	-	-	-	269	-	531	-
IMMIGRATION & NATURALIZATION SVC	336	40	296	-	-	-	-	-	-	-
OFFICE OF JUSTICE PROGRAMS	6,809	266	1,036	-	3,061	-	2,018	-	428	-

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 19. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF LABOR, TOTAL	26,356	8,560	8,759	-	5,471	-	3,472	-	74	20
BUREAU OF LABOR STATISTICS	7,042	2,599	-	-	4,443	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	60	60	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	6,486	580	3,200	-	446	-	2,186	-	74	-
LABOR-MANAGEMENT RELATIONS & COOP PROG 3/	361	10	15	-	336	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,200	400	3,800	-	-	-	-	-	-	-
OFFICE OF PENSION & WELFARE BENEFITS	2,670	720	853	-	203	-	894	-	-	-
OFFICE OF THE SECRETARY	5,237	4,161	621	-	43	-	392	-	-	20
PENSION BENEFIT GUARANTEE CORPORATION	300	30	270	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,043	46	46	-	903	-	38	10	-	-
DEPARTMENTAL FUNDS	1,043	46	46	-	903	-	38	10	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	91,045	26,318	31,143	-	10,246	87	7,769	-	11,581	3,901
COAST GUARD	5,400	3,772	1,226	-	402	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	13,276	9,361	3,915	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	43,537	40	22,001	-	8,075	32	800	-	9,081	3,508
FEDERAL RAILROAD ADMINISTRATION	8,160	3,247	252	-	115	-	4,546	-	-	-
MARITIME ADMINISTRATION	467	39	363	-	65	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	19,100	8,879	3,261	-	1,589	55	2,423	-	2,500	393
OFFICE OF THE SECRETARY	705	580	125	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	400	400	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	11,053	7,427	3,626	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,105	846	259	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	9,041	6,495	2,546	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	257	36	221	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	650	50	600	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	178,800	177,500	-	-	800	-	500	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,769	1,769	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	132,100	1,605	18,500	-	34,000	-	20,049	-	-	57,946
APPALACHIAN REGIONAL COMMISSION	200	10	95	-	95	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	146	146	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	240,723	65,254	108,552	-	38,207	-	23,022	-	5,688	-
FEDERAL COMMUNICATIONS COMMISSION	1,224	1,224	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	3,409	3,286	98	-	25	-	-	-	-	-
FEDERAL TRADE COMMISSION	428	428	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION 4/	2,301	2,240	61	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	8,077	8,077	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	1,181	1,181	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,218,862	487,057	531,576	-	54,749	106,962	31,789	208	1,454	5,067
NATIONAL ARCHIVES	255	125	-	-	-	130	-	-	-	-
NATIONAL SCIENCE FOUNDATION	99,583	7,909	12,884	116	73,242	387	4,962	-	80	3
NUCLEAR REGULATORY COMMISSION	108,480	22,336	9,038	40,359	3,640	22,036	2,244	7,742	-	1,085
TENNESSEE VALLEY AUTHORITY	15,258	12,555	-	-	405	-	2,295	-	3	-
US ARMS CONTROL & DISARMAMENT AGENCY	781	5	618	25	23	20	90	-	-	-
UNITED STATES INFORMATION AGENCY	100	1	99	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

3/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

4/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 20. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	9,951,033	3,558,182	2,328,528	324,177	2,306,872	602,926	617,314	74,685	68,172	70,177
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	526,477	353,273	5,579	-	162,503	-	4,458	-	596	68
AGRICULTURAL COOPERATIVE SERVICE	2,744	2,444	-	-	300	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,289	1,289	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	215,242	209,503	-	-	4,879	-	767	-	38	55
ANIMAL & PLANT HEALTH INSPECTION SVC	7,495	7,026	-	-	420	-	49	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	162,750	6,741	3,663	-	148,515	-	3,339	-	492	-
ECONOMIC RESEARCH SERVICE	42,617	41,367	-	-	1,250	-	-	-	-	-
FEDERAL GRAIN INSPECTION SERVICE	748	667	-	-	2	-	79	-	-	-
FOREST SERVICE	81,300	75,612	316	-	5,069	-	224	-	66	13
HUMAN NUTRITION INFORMATION SERVICE	8,823	5,700	1,600	-	1,523	-	-	-	-	-
NAT'L AGRICULTURAL STATISTICS SVC	2,475	2,203	-	-	272	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	589	316	-	-	273	-	-	-	-	-
OFFICE OF TRANSPORTATION	405	405	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	326,252	274,194	5,501	-	34,595	51	3,755	-	8,054	102
BUREAU OF THE CENSUS	2,513	2,513	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,200	100	100	-	400	-	600	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	81,872	76,191	536	-	5,067	1	-	-	-	77
NAT'L OCEANIC & ATMOSPHERIC ADMIN	233,667	188,390	4,865	-	29,128	50	3,155	-	8,054	25
NAT'L TELECOMM & INFORMATION ADMIN	7,000	7,000	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,527,333	906,271	1,178,147	67,328	244,669	66,136	42,057	11,712	-	11,013
DEPARTMENT OF THE ARMY	582,157	379,776	147,048	8,897	28,097	4,378	6,730	300	-	6,931
DEPARTMENT OF THE NAVY	417,415	228,544	110,770	46,423	24,801	3,746	2,851	280	-	-
DEPARTMENT OF THE AIR FORCE	550,159	152,944	328,995	-	51,165	-	15,404	-	-	1,651
DEFENSE AGENCIES	977,602	145,007	591,334	12,008	140,606	58,012	17,072	11,132	-	2,431
DEPARTMENT OF EDUCATION	115,534	11,868	6,914	-	77,554	-	16,577	-	2,429	192
DEPARTMENT OF ENERGY	1,105,372	99,090	191,326	204,682	127,743	391,186	40,782	49,000	1,222	341
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,693,774	676,325	125,305	6,164	1,404,571	8,793	413,325	5,699	35,285	18,307
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	354,797	72,958	12,876	-	220,112	-	33,479	-	12,789	2,583
CENTERS FOR DISEASE CONTROL	101,712	72,521	4,291	-	11,000	-	12,500	-	250	1,150
FOOD & DRUG ADMINISTRATION	99,000	91,800	-	-	5,200	-	2,000	-	-	-
HEALTH CARE FINANCING ADMIN	50,532	413	12,390	-	13,216	-	23,346	-	826	341
HEALTH RESOURCES AND SERVICES ADMINISTRATION	9,047	1,186	-	-	5,161	-	1,100	-	1,600	-
HUMAN DEVELOPMENT SERVICES	8,963	707	449	-	3,774	-	2,857	-	1,176	-
NATIONAL INSTITUTES OF HEALTH	2,046,126	431,690	93,463	6,164	1,139,596	8,793	329,161	4,895	18,131	14,233
OFFICE OF THE SECRETARY	7,851	1,350	1,501	-	4,000	-	1,000	-	-	-
SOCIAL SECURITY ADMINISTRATION	15,746	3,700	335	-	2,512	-	7,882	804	513	-
DEPT OF HOUSING & URBAN DEVELOPMENT	6,509	4,541	1,579	-	-	-	389	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	259,020	219,559	17,706	1,255	20,003	-	-	-	413	84
BUREAU OF LAND MANAGEMENT	2,200	2,000	-	-	200	-	-	-	-	-
BUREAU OF MINES	49,900	30,232	15,992	1,172	2,504	-	-	-	-	-
BUREAU OF RECLAMATION	3,520	3,300	20	-	200	-	-	-	-	-
GEOLOGICAL SURVEY 2/	132,913	122,124	1,300	-	9,076	-	-	-	413	-
MINERAL MANAGEMENT SERVICE	1,187	576	144	83	300	-	-	-	-	84
NATIONAL PARK SERVICE	19,200	14,000	-	-	5,200	-	-	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,000	400	250	-	350	-	-	-	-	-
US FISH & WILDLIFE SERVICE	49,100	46,927	-	-	2,173	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	10,865	1,977	1,012	-	3,300	6	3,404	-	1,166	-
DRUG ENFORCEMENT ADMINISTRATION	500	200	300	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2,100	1,410	90	-	-	6	180	-	414	-
IMMIGRATION & NATURALIZATION SVC	400	40	360	-	-	-	-	-	-	-
OFFICE OF JUSTICE PROGRAMS	7,865	327	262	-	3,300	-	3,224	-	752	-

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 20. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF LABOR, TOTAL	24,526	6,513	8,939	-	5,334	-	3,740	-	-	-
BUREAU OF LABOR STATISTICS	7,200	2,749	-	-	4,451	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	156	156	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	6,045	800	2,707	-	538	-	2,000	-	-	-
LABOR-MANAGEMENT RELATIONS & COOP PROG 3/	360	10	15	-	335	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,403	400	4,003	-	-	-	-	-	-	-
OFFICE OF PENSION & WELFARE BENEFITS	1,349	374	435	-	-	-	540	-	-	-
OFFICE OF THE SECRETARY	4,713	1,994	1,509	-	10	-	1,200	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	300	30	270	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,042	42	55	-	920	-	25	-	-	-
DEPARTMENTAL FUNDS	1,042	42	55	-	920	-	25	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	108,814	42,994	31,603	243	12,092	100	6,153	-	11,271	4,358
COAST GUARD	4,800	3,115	1,385	-	300	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	25,922	23,673	2,249	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	44,447	40	21,596	-	10,132	-	-	-	8,871	3,808
FEDERAL RAILROAD ADMINISTRATION	9,347	4,734	300	-	60	-	4,253	-	-	-
MARITIME ADMINISTRATION	293	50	-	243	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	22,200	10,275	5,375	-	1,600	100	1,900	-	2,400	550
OFFICE OF THE SECRETARY	1,405	707	698	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	400	400	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	14,845	9,433	5,221	-	-	191	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	2,814	1,170	1,453	-	-	191	-	-	-	-
INTERNAL REVENUE SERVICE	11,250	8,082	3,168	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	361	121	240	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	420	60	360	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	197,700	196,440	-	-	800	-	460	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,389	1,389	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	88,090	2,123	9,905	-	31,347	-	16,020	-	-	28,695
APPALACHIAN REGIONAL COMMISSION	425	10	415	-	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	391	391	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	259,286	93,637	105,333	-	38,274	-	15,688	-	6,354	-
FEDERAL COMMUNICATIONS COMMISSION	1,249	1,249	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	3,983	3,783	160	-	40	-	-	-	-	-
FEDERAL TRADE COMMISSION	436	436	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION 4/	1,660	1,560	-	-	-	-	100	-	-	-
INTERNATIONAL TRADE COMMISSION	8,000	8,000	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	1,213	1,213	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,426,093	600,956	609,298	-	58,163	114,163	37,221	217	1,246	4,829
NATIONAL ARCHIVES	380	168	-	-	-	212	-	-	-	-
NATIONAL SCIENCE FOUNDATION	110,441	8,457	14,104	130	80,587	381	6,647	-	135	-
NUCLEAR REGULATORY COMMISSION	115,884	23,893	9,844	44,240	4,028	21,662	1,972	8,057	-	2,188
TENNESSEE VALLEY AUTHORITY	13,260	8,393	-	-	325	-	4,541	-	1	-
US ARMS CONTROL & DISARMAMENT AGENCY	690	3	483	135	24	45	-	-	-	-
UNITED STATES INFORMATION AGENCY	100	1	99	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

3/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

4/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

43 BEST COPY AVAILABLE

TABLE 21. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	9,890,810	3,551,986	2,245,346	289,814	2,384,807	610,498	585,893	75,428	59,178	87,860
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	501,118	361,406	5,414	-	132,580	-	1,068	-	581	69
AGRICULTURAL COOPERATIVE SERVICE	1,358	1,058	-	-	300	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	223,990	218,251	-	-	4,879	-	767	-	38	55
ANIMAL & PLANT HEALTH INSPECTION SVC	7,200	6,725	-	-	420	-	55	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	126,629	5,225	3,366	-	117,567	-	-	-	471	-
ECONOMIC RESEARCH SERVICE	44,474	43,224	-	-	1,250	-	-	-	-	-
FEDERAL GRAIN INSPECTION SERVICE	748	667	-	-	81	-	-	-	-	-
FOREST SERVICE	84,100	77,852	348	-	5,568	-	246	-	72	14
HUMAN NUTRITION INFORMATION SERVICE	9,468	5,800	1,700	-	1,968	-	-	-	-	-
NAT'L AGRICULTURAL STATISTICS SVC	2,475	2,203	-	-	272	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	440	165	-	-	275	-	-	-	-	-
OFFICE OF TRANSPORTATION	236	236	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	247,198	230,519	4,435	-	10,589	51	1,500	-	-	104
BUREAU OF THE CENSUS	2,529	2,529	-	-	-	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	79,707	77,876	734	-	1,017	1	-	-	-	79
NAT'L OCEANIC & ATMOSPHERIC ADMIN	157,562	142,714	3,701	-	9,572	50	1,500	-	-	25
NAT'L TELECOMM & INFORMATION ADMIN	7,400	7,400	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,411,994	935,907	1,046,316	33,160	247.301	92,600	38,375	8,473	-	9,862
DEPARTMENT OF THE ARMY	590,474	392,514	145,630	9,344	28,191	3,133	6,483	371	-	4,808
DEPARTMENT OF THE NAVY	411,207	225,135	138,111	16,036	25,434	4,445	1,946	100	-	-
DEPARTMENT OF THE AIR FORCE	581,045	161,531	347,465	-	54,037	-	16,269	-	-	1,743
DEFENSE AGENCIES	829,268	156,727	415,110	7,780	139,639	85,022	13,677	8,002	-	3,311
DEPARTMENT OF EDUCATION	119,307	14,354	9,160	-	78,592	-	14,399	9	2,693	100
DEPARTMENT OF ENERGY	999,776	63,396	182,290	194,533	109,404	359,131	39,307	51,002	378	335
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,795,672	680,101	120,689	5,835	1,532,223	8,323	389,239	5,633	35,957	17,672
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	399,942	86,441	14,235	-	243,305	-	37,358	-	14,509	4,094
CENTERS FOR DISEASE CONTROL	104,978	76,637	4,591	-	11,000	-	12,500	-	250	-
FOOD & DRUG ADMINISTRATION	108,000	100,800	-	-	5,200	-	2,000	-	-	-
HEALTH CARE FINANCING ADMIN	37,000	369	11,068	-	11,806	-	12,912	-	738	107
HEALTH RESOURCES AND SERVICES ADMINISTRATION	9,271	1,326	-	-	5,245	-	1,100	-	1,600	-
HUMAN DEVELOPMENT SERVICES	9,111	733	485	-	3,761	-	2,946	-	1,186	-
NATIONAL INSTITUTES OF HEALTH	2,105,790	408,595	88,463	5,835	1,247,758	8,323	311,551	4,633	17,161	13,471
OFFICE OF THE SECRETARY	5,012	1,500	1,512	-	1,000	-	1,000	-	-	-
SOCIAL SECURITY ADMINISTRATION	16,568	3,700	335	-	3,148	-	7,872	1,000	513	-
DEPT OF HOUSING & URBAN DEVELOPMENT	7,907	5,687	1,419	-	-	-	801	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	237,104	216,949	1,969	1,758	15,870	-	-	-	474	84
BUREAU OF LAND MANAGEMENT	1,700	1,500	-	-	200	-	-	-	-	-
BUREAU OF MINES	38,335	35,800	200	1,675	660	-	-	-	-	-
BUREAU OF RECLAMATION	4,100	3,770	30	-	300	-	-	-	-	-
GEOLOGICAL SURVEY 2/	126,802	118,876	1,295	-	6,237	-	-	-	394	-
MINERAL MANAGEMENT SERVICE	1,187	576	144	83	300	-	-	-	-	84
NATIONAL PARK SERVICE	19,500	14,200	-	-	5,300	-	-	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,580	500	300	-	700	-	-	-	80	-
US FISH & WILDLIFE SERVICE	43,900	41,727	-	-	2,173	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	10,981	2,040	1,010	-	2,750	-	4,681	-	500	-
DRUG ENFORCEMENT ADMINISTRATION	500	200	300	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,700	1,600	100	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	400	40	360	-	-	-	-	-	-	-
OFFICE OF JUSTICE PROGRAMS	8,381	200	250	-	2,750	-	4,681	-	500	-

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 21. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF LABOR, TOTAL	24,207	7,258	8,205	-	5,594	-	3,150	-	-	-
BUREAU OF LABOR STATISTICS	8,200	3,500	-	-	4,700	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	159	159	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	6,141	800	2,802	-	539	-	2,000	-	-	-
LABOR-MANAGEMENT RELATIONS & COOP PROG 3/	360	10	15	-	335	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,403	400	4,003	-	-	-	-	-	-	-
OFFICE OF PENSION & WELFARE BENEFITS	2,379	379	1,000	-	-	-	1,000	-	-	-
OFFICE OF THE SECRETARY	2,365	1,990	205	-	20	-	150	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	200	20	180	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	138	38	55	-	20	-	25	-	-	-
DEPARTMENTAL FUNDS	138	38	55	-	20	-	25	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	105,720	41,936	29,527	-	17,887	100	4,187	-	10,883	1,200
COAST GUARD	5,000	3,246	1,454	-	300	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	25,759	22,289	3,470	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	42,940	37	18,273	-	16,047	-	-	-	8,383	200
FEDERAL RAILROAD ADMINISTRATION	6,827	3,700	400	-	40	-	2,687	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	23,000	11,500	4,900	-	1,500	100	1,500	-	2,500	1,000
OFFICE OF THE SECRETARY	1,794	764	1,030	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	400	400	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	16,691	10,383	6,090	-	-	218	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	2,966	1,553	1,195	-	-	218	-	-	-	-
INTERNAL REVENUE SERVICE	13,340	8,670	4,670	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	385	160	225	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	169,300	168,500	-	-	800	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,395	1,395	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	108,375	891	7,536	-	32,450	-	16,423	-	-	51,075
CONSUMER PRODUCT SAFETY COMMISSION	89	89	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	262,182	92,472	109,540	-	36,391	-	17,435	-	6,344	-
FEDERAL COMMUNICATIONS COMMISSION	1,295	1,295	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	4,162	3,962	160	-	40	-	-	-	-	-
FEDERAL TRADE COMMISSION	452	452	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION 4/	615	525	90	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	9,420	9,420	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	1,607	1,607	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,584,201	657,443	684,372	-	66,587	127,718	41,350	225	1,204	5,302
NATIONAL ARCHIVES	330	80	-	-	-	250	-	-	-	-
NATIONAL SCIENCE FOUNDATION	126,892	10,348	15,778	206	91,338	577	8,481	-	164	-
NUCLEAR REGULATORY COMMISSION	129,966	25,780	11,171	54,272	4,080	21,530	991	10,085	-	2,057
TENNESSEE VALLEY AUTHORITY	12,516	7,751	-	-	293	-	4,471	1	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	200	2	120	50	18	-	10	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

3/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

4/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 22. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE/ENGINEERING: FISCAL YEARS 1988, 1989, AND 1990

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE/ENGINEERING	ACTUAL, 1988	ESTIMATES	
		1989	1990
TOTAL, ALL FIELDS	9,176,368	9,951,033	9,890,810
LIFE SCIENCES, TOTAL	3,222,705	3,454,760	3,540,231
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,266,828	1,383,548	1,433,478
ENVIRONMENTAL BIOLOGY	154,220	149,842	144,999
AGRICULTURAL	297,001	296,625	298,197
MEDICAL	1,367,786	1,481,804	1,507,565
LIFE SCIENCES, NEC	136,870	142,941	155,992
PSYCHOLOGY, TOTAL	211,986	230,683	230,754
BIOLOGICAL ASPECTS	52,874	59,501	65,467
SOCIAL ASPECTS	108,448	105,777	105,875
PSYCHOLOGICAL SCIENCES, NEC	50,664	65,405	59,412
PHYSICAL SCIENCES, TOTAL	1,117,683	1,196,748	1,212,043
ASTRONOMY	12,314	18,896	11,771
CHEMISTRY	232,314	250,665	253,408
PHYSICS	769,786	802,013	808,456
PHYSICAL SCIENCES, NEC	103,269	125,174	138,408
ENVIRONMENTAL SCIENCES, TOTAL	734,291	780,667	708,127
ATMOSPHERIC	307,123	317,572	323,348
GEOLOGICAL	174,296	197,934	185,806
OCEANOGRAPHY	190,931	201,652	140,860
ENVIRONMENTAL SCIENCES, NEC	61,941	63,509	58,113
MATHEMATICS & COMPUTER SCIENCES, TOTAL	329,641	385,820	386,786
MATHEMATICS	52,486	67,725	63,461
COMPUTER SCIENCES	167,218	193,332	198,201
MATHEMATICS & COMPUTER SCIENCES, NEC	109,937	124,763	125,124
ENGINEERING, TOTAL	2,950,010	3,224,916	3,151,226
AERONAUTICAL	570,776	632,600	709,543
ASTRONAUTICAL	526,938	590,932	689,145
CHEMICAL	169,452	190,781	148,705
CIVIL	168,566	165,024	164,012
ELECTRICAL	577,130	644,932	550,318
MECHANICAL	157,222	157,009	172,106
METALLURGY & MATERIALS	226,595	257,697	201,777
ENGINEERING, NEC	553,331	585,941	515,620
SOCIAL SCIENCES, TOTAL	339,013	393,041	389,561
ANTHROPOLOGY	2,221	2,284	2,858
ECONOMICS	124,822	128,421	128,195
POLITICAL SCIENCE	7,058	8,795	11,549
SOCIOLOGY	44,987	55,023	53,927
SOCIAL SCIENCES, NEC	159,925	198,518	193,032
OTHER SCIENCES, NEC	271,039	284,398	272,082

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 23. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE/ENGINEERING: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	9,176,368	3,222,705	211,986	1,117,683	734,291	329,641	2,950,010	339,013	271,039
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	504,618	362,864	160	32,321	7,146	7,042	21,559	73,526	-
AGRICULTURAL COOPERATIVE SERVICE	2,690	-	-	-	-	-	-	2,690	-
AGRICULTURAL MARKETING SERVICE	1,332	1,332	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	208,236	181,948	-	19,498	942	544	5,304	-	-
ANIMAL & PLANT HEALTH INSPECTION SVC	5,637	5,637	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	152,621	112,155	-	7,070	691	-	8,184	24,521	-
ECONOMIC RESEARCH SERVICE	41,372	-	-	-	-	-	-	41,372	-
FEDERAL GRAIN INSPECTION SERVICE	602	602	-	-	-	-	-	-	-
FOREST SERVICE	79,900	51,385	160	5,753	5,513	4,075	8,071	4,943	-
HUMAN NUTRITION INFORMATION SERVICE	8,215	8,215	-	-	-	-	-	-	-
NAT'L AGRICULTURAL STATISTICS SVC	2,423	-	-	-	-	2,423	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	1,187	1,187	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	403	403	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	311,472	12,274	236	40,503	193,780	12,766	44,726	3,175	4,012
BUREAU OF THE CENSUS	2,419	-	211	-	-	1,525	-	623	60
ECONOMIC DEVELOPMENT ADMINISTRATION	4,170	-	-	-	-	-	3,000	1,170	-
NAT'L INSTITUTE OF STANDARDS & TECH	72,614	-	-	27,680	262	9,281	35,142	249	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	224,971	12,274	25	12,823	193,518	1,796	3,402	1,133	-
NAT'L TELECOMM & INFORMATION ADMIN	7,298	-	-	-	-	164	3,182	-	3,952
DEPARTMENT OF DEFENSE, TOTAL	2,362,201	190,286	77,193	345,017	124,035	223,586	1,295,464	2,655	103,965
DEPARTMENT OF THE ARMY	587,990	110,865	42,311	75,702	15,734	7,301	322,131	2,184	11,762
DEPARTMENT OF THE NAVY	406,043	12,239	11,815	45,100	13,145	38,843	280,718	-	4,183
DEPARTMENT OF THE AIR FORCE	576,677	46,134	23,067	63,434	46,134	28,834	369,074	-	-
DEFENSE AGENCIES	791,491	21,048	-	160,781	49,022	148,608	323,541	471	88,020
DEPARTMENT OF EDUCATION	106,641	14,531	7,787	-	-	467	7,080	76,776	-
DEPARTMENT OF ENERGY	1,050,559	104,148	-	529,404	61,001	4,756	342,525	-	8,725
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,415,560	2,029,088	107,606	34,193	-	7,581	24,539	102,412	110,141
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	286,640	169,256	71,740	4,884	-	1,099	131	34,841	4,689
CENTERS FOR DISEASE CONTROL	88,722	88,722	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	91,000	91,000	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	28,156	-	-	-	-	-	-	28,156	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	8,953	8,953	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	7,130	-	-	-	-	-	-	7,130	-
NATIONAL INSTITUTES OF HEALTH	1,885,571	1,671,157	35,866	29,309	-	5,987	24,408	13,392	105,452
OFFICE OF THE SECRETARY	4,738	-	-	-	-	495	-	4,243	-
SOCIAL SECURITY ADMINISTRATION	14,650	-	-	-	-	-	-	14,650	-
DEPT OF HOUSING & URBAN DEVELOPMENT	6,282	-	-	-	-	178	507	5,321	276
DEPARTMENT OF THE INTERIOR, TOTAL	266,016	69,402	-	17,834	112,114	8,871	55,890	1,705	200
BUREAU OF LAND MANAGEMENT	2,200	2,100	-	-	100	-	-	-	-
BUREAU OF MINES	54,118	-	-	-	7,534	-	46,584	-	-
BUREAU OF RECLAMATION	3,602	811	-	-	1,543	-	1,248	-	-
GEOLOGICAL SURVEY 1/	135,763	1,321	-	17,634	101,489	8,614	6,705	-	-
MINERAL MANAGEMENT SERVICE	1,187	-	-	-	-	-	1,187	-	-
NATIONAL PARK SERVICE	19,379	16,190	-	-	1,110	219	-	1,660	200
OFFICE OF THE SECRETARY	87	-	-	-	87	-	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	980	280	-	200	251	38	166	45	-
US FISH & WILDLIFE SERVICE	48,700	48,700	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	9,845	1,000	949	100	-	239	736	6,821	-
DRUG ENFORCEMENT ADMINISTRATION	600	100	-	100	-	-	400	-	-
FEDERAL PRISON SYSTEM	2,100	900	300	-	-	-	-	900	-
IMMIGRATION & NATURALIZATION SVC	336	-	-	-	-	-	336	-	-
OFFICE OF JUSTICE PROGRAMS	6,809	-	649	-	-	239	-	5,921	-

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 23. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE/ENGINEERING: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF LABOR, TOTAL	26,356	-	-	-	-	-	-	23,301	3,055
BUREAU OF LABOR STATISTICS	7,042	-	-	-	-	-	-	7,042	-
EMPLOYMENT STANDARDS ADMINISTRATION	60	-	-	-	-	-	-	60	-
EMPLOYMENT AND TRAINING ADMIN	6,486	-	-	-	-	-	-	6,486	-
LABOR-MANAGEMENT RELATIONS & COOP PROG 2/	361	-	-	-	-	-	-	361	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,200	-	-	-	-	-	-	4,200	-
OFFICE OF PENSION & WELFARE BENEFITS	2,670	-	-	-	-	-	-	2,670	-
OFFICE OF THE SECRETARY	5,237	-	-	-	-	-	-	2,182	3,055
PENSION BENEFIT GUARANTEE CORPORATION	300	-	-	-	-	-	-	300	-
DEPARTMENT OF STATE, TOTAL	1,043	-	-	-	-	-	-	1,043	-
DEPARTMENTAL FUNDS	1,043	-	-	-	-	-	-	1,043	-
DEPARTMENT OF TRANSPORTATION, TOTAL	91,045	1,985	-	1,280	1,405	7,966	71,915	6,484	10
COAST GUARD	5,400	-	-	480	-	1,464	2,970	486	-
FEDERAL AVIATION ADMINISTRATION	13,276	-	-	-	-	-	13,276	-	-
FEDERAL HIGHWAY ADMINISTRATION	43,537	-	-	600	1,405	5,202	35,400	930	-
FEDERAL RAILROAD ADMINISTRATION	8,160	-	-	-	-	-	8,040	120	-
MARITIME ADMINISTRATION	467	-	-	-	-	138	319	-	10
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	19,100	1,985	-	-	-	1,162	11,080	4,873	-
OFFICE OF THE SECRETARY	705	-	-	200	-	-	505	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	400	-	-	-	-	-	325	75	-
DEPARTMENT OF THE TREASURY, TOTAL	11,053	410	22	1,355	-	5,816	177	3,273	-
BUREAU OF ENGRAVING AND PRINTING	1,105	-	15	865	-	48	177	-	-
INTERNAL REVENUE SERVICE	9,041	-	-	-	-	5,768	-	3,273	-
OFFICE OF PROTECTIVE RESEARCH	257	250	7	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	650	160	-	490	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	178,800	161,187	12,222	-	-	-	5,391	-	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,769	-	-	-	-	-	-	1,769	-
AGENCY FOR INTERNAT'L DEVELOPMENT	132,100	99,193	3,400	-	375	353	2,800	6,199	19,780
APPALACHIAN REGIONAL COMMISSION	200	-	-	-	-	-	-	200	-
CONSUMER PRODUCT SAFETY COMMISSION	146	-	-	118	-	-	28	-	-
ENVIRONMENTAL PROTECTION AGENCY	240,723	91,619	933	29,740	72,881	791	43,762	560	437
FEDERAL COMMUNICATIONS COMMISSION	1,224	-	-	-	-	45	688	491	-
FEDERAL HOME LOAN BANK BOARD	3,409	-	-	-	-	-	-	3,409	-
FEDERAL TRADE COMMISSION	428	-	-	-	-	-	-	428	-
GENERAL SERVICES ADMINISTRATION 3/	2,301	-	-	-	-	-	2,301	-	-
INTERNATIONAL TRADE COMMISSION	8,077	-	-	-	-	-	-	8,077	-
LIBRARY OF CONGRESS	1,181	-	-	-	-	-	-	-	1,181
NATIONAL AERONAUTICS & SPACE ADMIN	1,218,862	72,453	1,180	70,717	155,587	45,601	870,213	3,026	485
NATIONAL ARCHIVES	255	-	-	180	-	75	-	-	-
NATIONAL SCIENCE FOUNDATION	99,583	9,489	298	11,692	5,190	3,418	50,891	7,778	10,827
NUCLEAR REGULATORY COMMISSION	108,480	-	-	-	-	-	108,480	-	-
TENNESSEE VALLEY AUTHORITY	15,258	2,776	-	3,580	777	-	-	180	7,945
US ARMS CONTROL & DISARMAMENT AGENCY	781	-	-	49	-	90	238	404	-
UNITED STATES INFORMATION AGENCY	100	-	-	-	-	-	100	-	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

2/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS.

3/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

48 BEST COPY AVAILABLE

TABLE 24. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE/ENGINEERING: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	9,951,033	3,454,760	230,683	1,196,748	780,667	385,820	3,224,916	393,041	284,398
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	526,477	381,959	163	31,737	7,201	7,309	21,633	76,475	-
AGRICULTURAL COOPERATIVE SERVICE	2,744	-	-	-	-	-	-	2,744	-
AGRICULTURAL MARKETING SERVICE	1,289	1,289	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	215,242	190,059	-	18,477	893	688	5,125	-	-
ANIMAL & PLANT HEALTH INSPECTION SVC	7,495	7,495	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	162,750	120,275	-	7,407	698	-	8,297	26,073	-
ECONOMIC RESEARCH SERVICE	42,617	-	-	-	-	-	-	42,617	-
FEDERAL GRAIN INSPECTION SERVICE	748	748	-	-	-	-	-	-	-
FOREST SERVICE	81,300	52,276	163	5,853	5,610	4,146	8,211	5,041	-
HUMAN NUTRITION INFORMATION SERVICE	8,823	8,823	-	-	-	-	-	-	-
NAT'L AGRICULTURAL STATISTICS SVC	2,475	-	-	-	-	2,475	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	589	589	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	405	405	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	326,252	13,659	245	40,311	200,373	13,493	51,048	3,212	3,911
BUREAU OF THE CENSUS	2,513	-	219	-	-	1,586	-	647	61
ECONOMIC DEVELOPMENT ADMINISTRATION	1,200	-	-	-	-	-	-	1,200	-
NAT'L INSTITUTE OF STANDARDS & TECH	81,872	-	-	27,380	356	9,957	44,022	157	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	233,667	13,659	26	12,931	200,017	1,810	4,016	1,208	-
NAT'L TELECOMM & INFORMATION ADMIN	7,000	-	-	-	-	140	3,010	-	3,850
DEPARTMENT OF DEFENSE, TOTAL	2,527,333	177,195	78,216	359,494	145,404	268,453	1,378,344	2,761	117,466
DEPARTMENT OF THE ARMY	582,157	104,460	44,626	75,863	18,237	7,496	303,669	2,305	25,501
DEPARTMENT OF THE NAVY	417,415	10,825	11,384	45,940	13,604	50,655	278,207	-	6,800
DEPARTMENT OF THE AIR FORCE	550,159	44,013	22,006	60,517	44,013	27,508	352,102	-	-
DEFENSE AGENCIES	977,602	17,897	200	177,174	69,550	182,794	444,366	456	85,165
DEPARTMENT OF EDUCATION	115,534	14,912	8,282	-	-	521	7,507	84,312	-
DEPARTMENT OF ENERGY	1,105,372	110,102	-	551,402	68,180	4,814	359,899	-	10,975
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,693,774	2,231,092	126,942	38,322	-	8,287	26,633	142,002	120,496
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	354,797	207,872	88,025	6,525	-	1,280	156	44,883	6,056
CENTERS FOR DISEASE CONTROL	101,712	101,712	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	99,000	99,000	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	50,532	-	-	-	-	-	-	50,532	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	9,047	9,047	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	8,963	-	-	-	-	-	-	8,963	-
NATIONAL INSTITUTES OF HEALTH	2,046,126	1,813,461	38,917	31,797	-	6,507	26,477	14,527	114,440
OFFICE OF THE SECRETARY	7,851	-	-	-	-	500	-	7,351	-
SOCIAL SECURITY ADMINISTRATION	15,746	-	-	-	-	-	-	15,746	-
DEPT OF HOUSING & URBAN DEVELOPMENT	6,509	-	-	-	-	97	369	5,030	1,013
DEPARTMENT OF THE INTERIOR, TOTAL	259,020	69,853	-	17,010	108,739	8,788	52,780	1,850	-
BUREAU OF LAND MANAGEMENT	2,200	2,100	-	-	100	-	-	-	-
BUREAU OF MINES	49,900	-	-	-	7,150	-	42,750	-	-
BUREAU OF RECLAMATION	3,520	816	-	-	336	-	2,368	-	-
GEOLOGICAL SURVEY 1/	132,913	1,257	-	16,710	99,953	8,748	6,245	-	-
MINERAL MANAGEMENT SERVICE	1,187	-	-	-	-	-	1,187	-	-
NATIONAL PARK SERVICE	19,200	16,300	-	-	1,100	-	-	1,800	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,000	280	-	300	100	40	230	50	-
US FISH & WILDLIFE SERVICE	49,100	49,100	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	10,865	700	796	-	-	200	800	8,369	-
DRUG ENFORCEMENT ADMINISTRATION	500	100	-	-	-	-	400	-	-
FEDERAL PRISON SYSTEM	2,100	600	400	-	-	-	-	1,100	-
IMMIGRATION & NATURALIZATION SVC	400	-	-	-	-	-	400	-	-
OFFICE OF JUSTICE PROGRAMS	7,865	-	396	-	-	200	-	7,269	-

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 24. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE/ENGINEERING: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF LABOR, TOTAL	24,526	-	-	-	-	-	-	22,176	2,350
BUREAU OF LABOR STATISTICS	7,200	-	-	-	-	-	-	7,200	-
EMPLOYMENT STANDARDS ADMINISTRATION	156	-	-	-	-	-	-	156	-
EMPLOYMENT AND TRAINING ADMIN	6,045	-	-	-	-	-	-	6,045	-
LABOR-MANAGEMENT RELATIONS & COOP PROG 2/	360	-	-	-	-	-	-	360	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,403	-	-	-	-	-	-	4,403	-
OFFICE OF PENSION & WELFARE BENEFITS	1,349	-	-	-	-	-	-	1,349	-
OFFICE OF THE SECRETARY	4,713	-	-	-	-	-	-	2,363	2,350
PENSION BENEFIT GUARANTEE CORPORATION	300	-	-	-	-	-	-	300	-
DEPARTMENT OF STATE, TOTAL	1,042	-	-	-	-	-	-	1,042	-
DEPARTMENTAL FUNDS	1,042	-	-	-	-	-	-	1,042	-
DEPARTMENT OF TRANSPORTATION, TOTAL	108,814	2,883	-	10,294	493	5,747	81,158	8,239	-
COAST GUARD	4,800	-	-	340	-	1,144	2,838	478	-
FEDERAL AVIATION ADMINISTRATION	25,922	-	-	-	-	-	25,922	-	-
FEDERAL HIGHWAY ADMINISTRATION	44,447	-	-	9,454	493	2,903	31,455	142	-
FEDERAL RAILROAD ADMINISTRATION	9,347	-	-	-	-	-	9,257	90	-
MARITIME ADMINISTRATION	293	-	-	-	-	50	243	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	22,200	2,883	-	-	-	1,650	10,238	7,429	-
OFFICE OF THE SECRETARY	1,405	-	-	500	-	-	905	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	400	-	-	-	-	-	300	100	-
DEPARTMENT OF THE TREASURY, TOTAL	14,845	250	111	2,465	-	7,313	633	4,073	-
BUREAU OF ENGRAVING AND PRINTING	2,814	-	-	2,045	-	136	633	-	-
INTERNAL REVENUE SERVICE	11,250	-	-	-	-	7,177	-	4,073	-
OFFICE OF PROTECTIVE RESEARCH	361	250	111	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	420	-	-	420	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	197,700	180,213	12,387	-	-	-	5,100	-	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,389	-	-	-	-	-	-	1,389	-
AGENCY FOR INTERNAT'L DEVELOPMENT	88,090	71,535	950	-	1,026	278	-	7,365	6,936
APPALACHIAN REGIONAL COMMISSION	425	-	-	-	-	-	-	425	-
CONSUMER PRODUCT SAFETY COMMISSION	391	-	-	325	-	-	66	-	-
ENVIRONMENTAL PROTECTION AGENCY	259,286	104,418	930	33,184	75,168	883	44,703	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,249	-	-	-	-	51	664	534	-
FEDERAL HOME LOAN BANK BOARD	3,983	-	-	-	-	-	-	3,983	-
FEDERAL TRADE COMMISSION	436	-	-	-	-	-	-	436	-
GENERAL SERVICES ADMINISTRATION 3/	1,660	-	-	-	-	-	1,660	-	-
INTERNATIONAL TRADE COMMISSION	8,000	-	-	-	-	-	-	8,000	-
LIBRARY OF CONGRESS	1,213	-	-	-	-	-	-	-	1,213
NATIONAL AERONAUTICS & SPACE ADMIN	1,426,093	83,516	1,350	95,357	167,493	55,283	1,019,656	2,922	516
NATIONAL ARCHIVES	380	-	-	265	-	115	-	-	-
NATIONAL SCIENCE FOUNDATION	110,441	9,844	311	12,945	5,837	4,093	56,094	8,061	13,256
NUCLEAR REGULATORY COMMISSION	115,884	-	-	-	-	-	115,884	-	-
TENNESSEE VALLEY AUTHORITY	13,260	2,629	-	3,612	753	-	-	-	6,266
US ARMS CONTROL & DISARMAMENT AGENCY	690	-	-	25	-	95	185	385	-
UNITED STATES INFORMATION AGENCY	100	-	-	-	-	-	100	-	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

2/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS.

3/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 25. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE/ENGINEERING: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	9,890,810	3,540,231	230,754	1,212,043	708,127	386,786	3,151,226	389,561	272,082
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	501,118	360,905	168	31,539	7,395	7,480	21,649	71,982	-
AGRICULTURAL COOPERATIVE SERVICE	1,358	-	-	-	-	-	-	1,358	-
AGRICULTURAL RESEARCH SERVICE	223,990	197,784	-	19,228	929	716	5,333	-	-
ANIMAL & PLANT HEALTH INSPECTION SVC	7,200	7,200	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	126,629	90,952	-	6,256	663	-	7,823	20,935	-
ECONOMIC RESEARCH SERVICE	44,474	-	-	-	-	-	-	44,474	-
FEDERAL GRAIN INSPECTION SERVICE	748	748	-	-	-	-	-	-	-
FOREST SERVICE	84,100	54,077	168	6,055	5,803	4,289	8,493	5,215	-
HUMAN NUTRITION INFORMATION SERVICE	9,468	9,468	-	-	-	-	-	-	-
NAT'L AGRICULTURAL STATISTICS SVC	2,475	-	-	-	-	2,475	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	440	440	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	236	236	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	247,198	1,002	220	40,437	140,684	13,971	46,164	807	3,913
BUREAU OF THE CENSUS	2,529	-	220	-	-	1,595	-	651	63
NAT'L INSTITUTE OF STANDARDS & TECH	79,707	-	-	28,064	356	10,347	40,784	156	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	157,562	1,002	-	12,373	140,328	1,889	1,970	-	-
NAT'L TELECOMM & INFORMATION ADMIN	7,400	-	-	-	-	140	3,410	-	3,850
DEPARTMENT OF DEFENSE, TOTAL	2,411,994	179,454	69,313	420,862	144,976	264,523	1,223,990	1,767	107,109
DEPARTMENT OF THE ARMY	590,474	100,784	34,471	94,315	17,387	9,971	322,906	1,767	8,873
DEPARTMENT OF THE NAVY	411,207	10,800	11,600	45,000	13,000	43,127	280,000	-	7,680
DEPARTMENT OF THE AIR FORCE	581,045	46,484	23,242	63,915	46,484	29,052	371,868	-	-
DEFENSE AGENCIES	829,268	21,386	-	217,632	68,105	182,373	249,216	-	90,556
DEPARTMENT OF EDUCATION	119,307	14,964	8,283	-	-	522	7,508	88,030	-
DEPARTMENT OF ENERGY	999,776	112,475	-	542,066	70,259	5,070	264,870	-	5,036
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,795,672	2,322,903	138,123	40,159	-	8,618	27,420	133,109	125,340
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	399,942	234,313	98,071	7,435	-	1,422	171	50,967	7,563
CENTERS FOR DISEASE CONTROL	104,978	104,978	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	108,000	108,000	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	37,000	-	-	-	-	-	-	37,000	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	9,271	9,271	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	9,111	-	-	-	-	-	-	9,111	-
NATIONAL INSTITUTES OF HEALTH	2,105,790	1,866,341	40,052	32,724	-	6,696	27,249	14,951	117,777
OFFICE OF THE SECRETARY	5,012	-	-	-	-	500	-	4,512	-
SOCIAL SECURITY ADMINISTRATION	16,568	-	-	-	-	-	-	16,568	-
DEPT OF HOUSING & URBAN DEVELOPMENT	7,907	-	-	-	-	304	253	6,995	355
DEPARTMENT OF THE INTERIOR, TOTAL	237,104	64,329	-	16,195	101,787	8,316	44,503	1,974	-
BUREAU OF LAND MANAGEMENT	1,700	1,600	-	-	100	-	-	-	-
BUREAU OF MINES	38,335	-	-	-	4,145	-	34,190	-	-
BUREAU OF RECLAMATION	4,100	800	-	-	900	-	2,400	-	-
GEOLOGICAL SURVEY 1/	126,802	1,161	-	15,745	95,197	8,206	6,493	-	-
MINERAL MANAGEMENT SERVICE	1,187	-	-	-	-	-	1,187	-	-
NATIONAL PARK SERVICE	19,500	16,400	-	-	1,200	-	-	1,900	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,580	468	-	450	245	110	233	74	-
US FISH & WILDLIFE SERVICE	43,900	43,900	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	10,981	100	700	-	-	200	800	9,181	-
DRUG ENFORCEMENT ADMINISTRATION	500	100	-	-	-	-	400	-	-
FEDERAL PRISON SYSTEM	1,700	-	500	-	-	-	-	1,200	-
IMMIGRATION & NATURALIZATION SVC	400	-	-	-	-	-	400	-	-
OFFICE OF JUSTICE PROGRAMS	8,381	-	200	-	-	200	-	7,981	-

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 25. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE/ENGINEERING: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF LABOR, TOTAL	24,207	-	-	-	-	-	-	24,007	200
BUREAU OF LABOR STATISTICS	8,200	-	-	-	-	-	-	8,200	-
EMPLOYMENT STANDARDS ADMINISTRATION	159	-	-	-	-	-	-	159	-
EMPLOYMENT AND TRAINING ADMIN	6,141	-	-	-	-	-	-	6,141	-
LABOR-MANAGEMENT RELATIONS & COOP PROG 2/	360	-	-	-	-	-	-	360	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,403	-	-	-	-	-	-	4,403	-
OFFICE OF PENSION & WELFARE BENEFITS	2,379	-	-	-	-	-	-	2,379	-
OFFICE OF THE SECRETARY	2,365	-	-	-	-	-	-	2,165	200
PENSION BENEFIT GUARANTEE CORPORATION	200	-	-	-	-	-	-	200	-
DEPARTMENT OF STATE, TOTAL	138	-	-	-	-	-	-	138	-
DEPARTMENTAL FUNDS	138	-	-	-	-	-	-	138	-
DEPARTMENT OF TRANSPORTATION, TOTAL	105,720	2,500	-	8,200	500	6,706	78,846	8,968	-
COAST GUARD	5,000	-	-	200	-	1,355	2,695	750	-
FEDERAL AVIATION ADMINISTRATION	25,759	-	-	-	-	-	25,759	-	-
FEDERAL HIGHWAY ADMINISTRATION	42,940	-	-	7,400	500	3,000	31,940	100	-
FEDERAL RAILROAD ADMINISTRATION	6,827	-	-	-	-	-	6,827	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	23,000	2,500	-	-	-	2,351	10,131	8,018	-
OFFICE OF THE SECRETARY	1,794	-	-	600	-	-	1,194	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	400	-	-	-	-	-	300	100	-
DEPARTMENT OF THE TREASURY, TOTAL	16,691	250	135	1,913	-	8,511	1,053	4,829	-
BUREAU OF ENGRAVING AND PRINTING	2,966	-	-	1,913	-	-	1,053	-	-
INTERNAL REVENUE SERVICE	13,340	-	-	-	-	8,511	-	4,829	-
OFFICE OF PROTECTIVE RESEARCH	385	250	135	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	169,300	153,880	11,054	-	-	-	4,366	-	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,395	-	-	-	-	-	-	1,395	-
AGENCY FOR INTERNAT'L DEVELOPMENT	108,375	94,106	-	-	-	340	55	7,014	6,860
CONSUMER PRODUCT SAFETY COMMISSION	89	-	-	5	-	-	84	-	-
ENVIRONMENTAL PROTECTION AGENCY	262,182	103,353	870	33,095	76,839	2,684	45,341	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,295	-	-	-	-	70	667	558	-
FEDERAL HOME LOAN BANK BOARD	4,162	-	-	-	-	-	-	4,162	-
FEDERAL TRADE COMMISSION	452	-	-	-	-	-	-	452	-
GENERAL SERVICES ADMINISTRATION 3/	615	-	-	-	-	-	615	-	-
INTERNATIONAL TRADE COMMISSION	9,420	-	-	-	-	-	-	9,420	-
LIBRARY OF CONGRESS	1,607	-	-	-	-	-	-	-	1,607
NATIONAL AERONAUTICS & SPACE ADMIN	1,584,201	116,560	1,537	60,085	158,115	53,265	1,188,567	5,482	590
NATIONAL ARCHIVES	330	-	-	305	-	25	-	-	-
NATIONAL SCIENCE FOUNDATION	126,892	11,103	351	14,454	6,782	6,181	64,509	9,091	14,421
NUCLEAR REGULATORY COMMISSION	129,966	-	-	-	-	-	129,966	-	-
TENNESSEE VALLEY AUTHORITY	12,516	2,347	-	2,728	790	-	-	-	6,651
US ARMS CONTROL & DISARMAMENT AGENCY	200	-	-	-	-	-	-	200	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

2/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS & COOPERATIVE PROGRAMS.

3/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 26. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	38,285,087	8,942,498	24,076,723	1,456,106	804,781	1,909,097	382,754	422,726	39,019	251,383
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	31,421	30,674	-	-	637	-	98	-	5	7
AGRICULTURAL MARKETING SERVICE	312	312	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	26,295	25,572	-	-	613	-	98	-	5	7
FEDERAL GRAIN INSPECTION SERVICE	433	409	-	-	24	-	-	-	-	-
FOREST SERVICE	4,000	4,000	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	247	247	-	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	134	134	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	46,619	25,277	14,384	-	4,434	-	2,524	-	-	-
BUREAU OF THE CENSUS	1,948	1,948	-	-	-	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	9,055	9,039	16	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	34,791	13,465	14,368	-	4,434	-	2,524	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	825	825	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	32,176,017	7,875,121	22,209,955	241,805	342,276	747,925	149,739	388,462	264	220,470
DEPARTMENT OF THE ARMY	4,052,328	1,244,799	2,583,802	18,317	24,597	131,769	27,761	12,010	-	9,273
DEPARTMENT OF THE NAVY	8,766,212	2,632,159	5,550,496	124,948	231,462	6,503	108,528	38,152	-	73,964
DEPARTMENT OF THE AIR FORCE	14,260,532	2,770,378	11,123,215	7,974	27,166	64,895	3,029	251,405	-	12,470
DEFENSE AGENCIES	4,868,436	1,134,431	2,868,828	90,566	56,642	544,187	10,421	76,116	-	87,245
TEST AND EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	160,342	35,495	79,291	-	2,409	571	-	4,794	264	37,518
DIRECTOR, OPERATIONAL TEST AND EVALUATION	68,167	57,859	4,323	-	-	-	-	5,985	-	-
DEPARTMENT OF EDUCATION	29,688	2,479	1,511	-	15,974	-	9,599	-	125	-
DEPARTMENT OF ENERGY	2,801,033	110,127	525,824	1,212,109	21,597	887,372	10,184	33,209	265	346
DEPT OF HLTH & HUMAN SERVICES, TOTAL	661,078	127,145	32,011	2,192	359,521	2,382	117,677	857	15,447	3,846
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	2,443	1,832	-	-	-	-	611	-	-	-
HUMAN DEVELOPMENT SERVICES	46,836	3,116	1,822	-	15,536	-	16,449	-	9,913	-
NATIONAL INSTITUTES OF HEALTH	610,200	122,047	30,189	2,192	342,928	2,382	100,225	857	5,534	3,846
OFFICE OF ASST'T SECY FOR HEALTH	1,599	150	-	-	1,057	-	392	-	-	-
DEPT OF HOUSING & URBAN DEVELOPMENT	12,130	8,918	2,289	-	-	-	923	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	24,288	11,409	12,275	-	414	-	90	-	100	-
BUREAU OF LAND MANAGEMENT	1,500	1,000	-	-	400	-	-	-	100	-
BUREAU OF MINES	5,171	100	5,071	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	698	698	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY 2/	10,872	3,893	6,875	-	14	-	90	-	-	-
OFFICE OF THE SECRETARY	347	18	329	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	5,700	5,700	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	25,683	15,073	4,104	-	339	-	2,139	-	4,028	-
DRUG ENFORCEMENT ADMINISTRATION	1,900	500	1,400	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	12,733	12,733	-	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	3,919	190	29	-	-	-	272	-	3,428	-
OFFICE OF JUSTICE PROGRAMS	7,131	1,650	2,675	-	339	-	1,867	-	600	-

CONTINUED ON NEXT PAGE

53 BEST COPY AVAILABLE

TABLE 26. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF LABOR, TOTAL	8,891	35	630	-	57	-	2,249	-	5,901	19
EMPLOYMENT AND TRAINING ADMIN	8,019	15	445	-	15	-	1,770	-	5,774	-
OFFICE OF THE SECRETARY	872	20	185	-	42	-	479	-	127	19
DEPARTMENT OF TRANSPORTATION, TOTAL	212,909	121,612	70,718	-	6,600	-	6,639	-	7,330	10
COAST GUARD	15,724	12,158	3,566	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	147,259	94,345	47,230	-	527	-	5,157	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	29,948	3,390	16,202	-	4,254	-	-	-	6,097	5
FEDERAL RAILROAD ADMINISTRATION	1,805	713	410	-	-	-	682	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,200	3,821	3,185	-	411	-	800	-	978	5
OFFICE OF THE SECRETARY	5,010	4,755	100	-	155	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	1,655	1,630	25	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	2,308	800	-	-	1,253	-	-	-	255	-
DEPARTMENT OF THE TREASURY, TOTAL	10,196	1,368	8,828	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	798	665	133	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	723	520	203	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	8,543	150	8,393	-	-	-	-	-	-	-
UNITED STATES MINT	132	33	99	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	19,200	17,700	-	-	1,500	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	69,338	2,675	11,874	-	14,990	-	17,720	-	-	22,079
CONSUMER PRODUCT SAFETY COMMISSION	912	456	348	-	108	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	79,511	20,026	43,539	-	6,982	-	5,521	-	3,443	-
LIBRARY OF CONGRESS	5,502	5,231	271	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,998,783	504,693	1,138,162	-	28,245	268,828	52,116	198	2,081	4,460
NATIONAL ARCHIVES	156	10	-	-	-	-	-	-	-	146
TENNESSEE VALLEY AUTHORITY	68,812	62,139	-	-	1,107	-	5,536	-	30	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,600	10	-	-	-	2,590	-	-	-	-
UNITED STATES INFORMATION AGENCY	320	320	-	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 27. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	41,486,573	9,904,657	25,926,672	1,540,422	800,859	2,052,977	466,111	498,382	50,983	245,510
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	31,360	30,599	-	-	655	-	94	-	5	7
AGRICULTURAL MARKETING SERVICE	302	302	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	26,249	25,548	-	-	595	-	94	-	5	7
FEDERAL GRAIN INSPECTION SERVICE	352	292	-	-	60	-	-	-	-	-
FOREST SERVICE	4,200	4,200	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	123	123	-	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	134	134	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	47,229	25,255	13,118	-	6,856	-	2,000	-	-	-
BUREAU OF THE CENSUS	2,131	2,131	-	-	-	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	13,514	9,743	21	-	3,750	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	30,684	12,481	13,097	-	3,106	-	2,000	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	900	900	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	34,194,791	8,576,162	23,426,426	283,048	293,050	804,382	119,650	468,717	255	223,101
DEPARTMENT OF THE ARMY	4,593,934	1,563,797	2,789,453	18,984	24,177	149,542	24,778	14,047	-	9,156
DEPARTMENT OF THE NAVY	8,856,137	2,914,410	5,497,577	111,246	145,017	4,360	62,532	39,534	-	81,461
DEPARTMENT OF THE AIR FORCE	14,528,248	2,655,292	11,448,259	28,152	23,376	34,835	2,550	319,708	-	16,076
DEFENSE AGENCIES	6,009,665	1,367,875	3,605,584	124,666	98,159	615,095	29,790	88,239	-	80,257
TEST AND EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	154,500	34,202	76,402	-	2,321	550	-	4,619	255	36,151
DIRECTOR, OPERATIONAL TEST AND EVALUATION	52,307	40,586	9,151	-	-	-	-	2,570	-	-
DEPARTMENT OF EDUCATION	41,151	2,524	1,500	-	25,063	-	11,939	-	125	-
DEPARTMENT OF ENERGY	3,059,610	90,682	682,755	1,254,707	23,789	942,048	31,273	28,442	5,126	788
DEPT OF HLTH & HUMAN SERVICES, TOTAL	782,998	154,299	40,577	2,667	385,721	2,894	168,007	1,041	23,109	4,683
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	3,345	2,508	-	-	-	-	837	-	-	-
HUMAN DEVELOPMENT SERVICES	95,745	3,147	3,828	-	27,592	-	44,801	-	16,377	-
NATIONAL INSTITUTES OF HEALTH	682,100	148,494	36,749	2,667	356,884	2,894	121,956	1,041	6,732	4,683
OFFICE OF ASST'T SECY FOR HEALTH	1,808	150	-	-	1,245	-	413	-	-	-
DEPT OF HOUSING & URBAN DEVELOPMENT	11,710	7,887	2,473	-	186	-	1,164	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	26,014	14,564	10,689	-	650	-	11	-	100	-
BUREAU OF LAND MANAGEMENT	1,500	1,000	-	-	400	-	-	-	100	-
BUREAU OF MINES	4,300	2,467	1,833	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	280	280	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY 2/	12,834	4,097	8,476	-	250	-	11	-	-	-
OFFICE OF THE SECRETARY	400	20	380	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	6,700	6,700	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	19,577	8,441	5,229	-	1,000	-	1,245	-	3,662	-
DRUG ENFORCEMENT ADMINISTRATION	1,400	200	1,200	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	6,609	6,609	-	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	4,049	320	29	-	-	-	288	-	3,412	-
OFFICE OF JUSTICE PROGRAMS	7,519	1,312	4,000	-	1,000	-	957	-	250	-

CONTINUED ON NEXT PAGE

55 BEST COPY AVAILABLE

TABLE 27. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF LABOR, TOTAL	7,639	61	123	-	256	-	2,541	-	4,658	-
EMPLOYMENT AND TRAINING ADMIN	6,445	11	-	-	136	-	1,900	-	4,398	-
OFFICE OF THE SECRETARY	1,194	50	123	-	120	-	641	-	260	-
DEPARTMENT OF TRANSPORTATION, TOTAL	226,171	140,279	58,592	-	10,634	-	8,833	-	7,800	33
COAST GUARD	13,700	9,745	3,955	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	153,637	116,651	28,192	-	1,611	-	7,183	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	37,552	3,251	20,403	-	7,265	-	-	-	6,600	33
FEDERAL RAILROAD ADMINISTRATION	2,125	850	375	-	-	-	900	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	11,400	4,100	4,950	-	400	-	750	-	1,200	-
OFFICE OF THE SECRETARY	4,315	3,508	697	-	110	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	1,294	1,274	20	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	2,148	900	-	-	1,248	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	11,580	1,307	10,273	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,153	888	265	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	288	207	81	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	275	30	245	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	7,318	150	7,168	-	-	-	-	-	-	-
UNITED STATES MINT	2,546	32	2,514	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	18,500	17,000	-	-	1,500	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	50,727	1,594	4,561	-	12,997	-	19,160	-	-	12,415
CONSUMER PRODUCT SAFETY COMMISSION	1,016	428	488	-	100	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	82,493	19,262	43,020	-	8,126	-	8,332	-	3,753	-
LIBRARY OF CONGRESS	5,922	5,562	360	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,823,878	784,762	1,626,388	-	30,006	302,103	73,699	182	2,385	4,353
NATIONAL ARCHIVES	305	75	100	-	-	-	-	-	-	130
TENNESSEE VALLEY AUTHORITY	42,242	23,804	-	-	270	-	18,163	-	5	-
US ARMS CONTROL & DISARMAMENT AGENCY	1,560	10	-	-	-	1,550	-	-	-	-
UNITED STATES INFORMATION AGENCY	100	100	-	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

56 BEST COPY AVAILABLE

TABLE 28. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	44,992,641	10,800,094	28,268,972	1,631,858	777,698	2,304,940	429,2[illegible]	454,455	50,784	274,609
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	32,138	31,377	-	-	655	-	94	-	5	7
AGRICULTURAL RESEARCH SERVICE	27,316	26,615	-	-	595	-	94	-	5	7
FEDERAL GRAIN INSPECTION SERVICE	352	292	-	-	60	-	-	-	-	-
FOREST SERVICE	4,300	4,300	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	92	92	-	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	78	78	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	31,889	22,570	9,061	-	258	-	-	-	-	-
BUREAU OF THE CENSUS	2,194	2,194	-	-	-	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	12,061	11,621	420	-	20	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	16,734	7,855	8,641	-	238	-	-	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	900	900	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	36,865,845	9,272,991	25,212,608	349,483	263,780	1,022,783	70,682	427,002	450	246,066
DEPARTMENT OF THE ARMY	5,045,259	1,703,905	3,141,864	27,185	18,837	111,586	21,922	8,760	-	11,200
DEPARTMENT OF THE NAVY	9,571,086	3,172,911	6,013,801	129,015	107,777	6,143	16,805	40,131	-	84,503
DEPARTMENT OF THE AIR FORCE	14,271,880	2,551,792	11,359,558	34,438	24,179	35,079	3,000	262,756	-	1,078
DEFENSE AGENCIES	7,558,038	1,660,629	4,542,217	158,845	108,880	869,001	28,955	104,183	-	85,328
TEST AND EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	273,338	60,510	135,168	-	4,107	974	-	8,172	450	63,957
DIRECTOR, OPERATIONAL TEST AND EVALUATION	146,244	123,244	20,000	-	-	-	-	3,000	-	-
DEPARTMENT OF EDUCATION	20,127	2,244	1,500	-	8,184	-	7,732	342	125	-
DEPARTMENT OF ENERGY	2,888,039	72,424	530,750	1,279,647	17,000	950,560	11,186	25,874	198	400
DEPT OF HLTH & HUMAN SERVICES, TOTAL	826,223	158,371	41,198	2,728	419,920	2,961	170,025	1,065	25,164	4,791
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	4,015	3,011	-	-	-	-	1,004	-	-	-
HUMAN DEVELOPMENT SERVICES	96,278	3,292	3,601	-	27,207	-	43,901	-	18,277	-
NATIONAL INSTITUTES OF HEALTH	724,500	151,918	37,597	2,728	391,784	2,961	124,769	1,065	6,887	4,791
OFFICE OF ASST'T SECY FOR HEALTH	1,430	150	-	-	929	-	351	-	-	-
DEPT OF HOUSING & URBAN DEVELOPMENT	13,888	7,400	4,024	-	203	-	2,261	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	21,944	12,517	8,659	-	650	-	18	-	100	-
BUREAU OF LAND MANAGEMENT	1,300	800	-	-	400	-	-	-	100	-
BUREAU OF MINES	2,000	2,000	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	300	300	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY 2/	12,744	4,292	8,184	-	250	-	18	-	-	-
OFFICE OF THE SECRETARY	500	25	475	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	5,100	5,100	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	18,087	8,569	5,918	-	500	-	560	-	2,540	-
DRUG ENFORCEMENT ADMINISTRATION	1,400	200	1,200	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	6,689	6,689	-	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2,476	430	46	-	-	-	60	-	1,940	-
OFFICE OF JUSTICE PROGRAMS	7,522	1,250	4,672	-	500	-	500	-	600	-

CONTINUED ON NEXT PAGE

57 BEST COPY AVAILABLE

TABLE 28. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF LABOR, TOTAL	11,441	66	150	-	291	-	3,299	-	7,635	-
EMPLOYMENT AND TRAINING ADMIN	10,641	16	-	-	216	-	2,849	-	7,560	-
OFFICE OF THE SECRETARY	800	50	150	-	75	-	450	-	75	-
DEPARTMENT OF TRANSPORTATION, TOTAL	224,414	137,080	52,522	-	8,993	265	16,716	-	8,809	29
COAST GUARD	13,700	9,714	3,986	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	155,564	112,307	27,766	-	275	-	15,216	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	32,424	3,647	14,970	-	7,219	-	-	-	6,559	29
FEDERAL RAILROAD ADMINISTRATION	1,700	600	400	-	-	-	700	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	11,400	4,500	4,350	-	500	-	800	-	1,250	-
OFFICE OF THE SECRETARY	6,332	5,037	1,030	-	-	265	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	1,294	1,274	20	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	2,000	1	-	-	999	-	-	-	1,000	-
DEPARTMENT OF THE TREASURY, TOTAL	10,508	1,339	9,169	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,384	914	470	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	342	217	125	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	250	25	225	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	7,803	150	7,653	-	-	-	-	-	-	-
UNITED STATES MINT	729	33	696	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	18,300	16,800	-	-	1,500	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	60,576	1,498	7,258	-	12,623	-	19,974	-	-	19,223
CONSUMER PRODUCT SAFETY COMMISSION	536	536	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	82,296	18,451	44,324	-	8,518	-	7,793	-	3,210	-
LIBRARY OF CONGRESS	6,964	6,589	375	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	3,824,077	1,013,380	2,341,356	-	34,353	328,371	99,808	168	2,548	4,093
NATIONAL ARCHIVES	110	10	100	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	35,239	15,882	-	-	270	-	19,083	4	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 29. FEDERAL FUNDS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1988, 1989, AND 1990

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1988	ESTIMATES		1988	ESTIMATES	
		1989	1990		1989	1990
TOTAL, ALL AGENCIES	2,057,087	2,428,749	2,439,869	1,817,195	2,158,997	2,367,442
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	135,163	109,170	58,335	78,463	113,201	136,723
AGRICULTURAL RESEARCH SERVICE	55,543	73,698	53,350	58,260	80,646	64,293
ANIMAL & PLANT HEALTH INSPECTION SVC	515	602	485	515	602	485
COOPERATIVE STATE RESEARCH SERVICE	76,205	33,270	-	17,488	30,253	69,545
FOREST SERVICE	2,900	1,600	4,500	2,200	1,700	2,400
DEPARTMENT OF COMMERCE, TOTAL	11,209	11,916	14,914	10,850	12,329	14,613
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	300	800	800
NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY	10,738	11,445	14,443	10,079	11,058	13,342
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	471	471	471	471	471	471
DEPARTMENT OF DEFENSE, TOTAL	435,790	599,764	516,393	416,208	474,164	472,378
DEPARTMENT OF THE ARMY	92,792	70,462	61,381	61,760	83,291	68,424
DEPARTMENT OF THE NAVY	74,881	124,222	82,934	78,822	81,740	89,646
DEPARTMENT OF THE AIR FORCE	143,724	280,307	278,583	207,490	214,100	231,500
DEFENSE AGENCIES	124,393	124,773	93,495	68,136	95,033	82,808
DEPARTMENT OF EDUCATION	5,170	1,860	1,800	11,091	5,477	2,516
DEPARTMENT OF ENERGY	914,970	926,360	1,102,254	778,997	894,685	1,054,960
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	19,529	115,822	22,100	30,700	71,100	51,400
FOOD & DRUG ADMINISTRATION	500	25,500	500	1,700	2,800	7,200
NATIONAL INSTITUTES OF HEALTH	19,029	90,322	21,600	29,000	68,300	44,200
DEPARTMENT OF THE INTERIOR, TOTAL	9,357	10,042	3,385	5,062	6,763	3,086
BUREAU OF MINES	-	2,064	-	-	2,064	-
GEOLOGICAL SURVEY 1/	757	1,278	1,285	762	1,299	1,286
UNITED STATES FISH AND WILDLIFE SERVICE	8,600	6,700	2,100	4,300	3,400	1,800
DEPARTMENT OF TRANSPORTATION, TOTAL	13,937	12,731	27,515	11,068	12,441	14,752
COAST GUARD	300	300	300	284	300	300
FEDERAL AVIATION ADMINISTRATION	13,237	11,681	26,465	10,539	11,741	13,752
FEDERAL RAILROAD ADMINISTRATION	400	750	750	245	400	700
DEPARTMENT OF THE TREASURY, TOTAL	125	125	125	125	125	125
OFFICE OF PROTECTIVE RESEARCH	25	25	25	25	25	25
UNITED STATES CUSTOMS SERVICE	100	100	100	100	100	100
DEPARTMENT OF VETERANS AFFAIRS	19,500	12,400	6,700	4,600	6,300	10,400
OTHER AGENCIES						
AGENCY FOR INTERNATIONAL DEVELOPMENT	6,133	4,220	5,084	12,560	9,810	11,554
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	428,236	561,254	588,922	398,677	484,353	510,920
NATIONAL SCIENCE FOUNDATION	56,863	59,43[illegible]	85,713	56,700	64,600	79,800
SMITHSONIAN INSTITUTION	660	3,424	6,389	1,550	3,424	3,975
TENNESSEE VALLEY AUTHORITY	445	225	240	544	225	240

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

59 BEST COPY AVAILABLE

TABLE 30. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	2,057,087	319,589	719,499	204,315	245,840	535,324	23,665	6,154	300	2,401
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	135,163	60,992	-	-	67,987	-	6,184	-	-	-
AGRICULTURAL RESEARCH SERVICE	55,543	55,543	-	-	-	-	-	-	-	-
ANIMAL & PLANT HEALTH INSPECTION SVC	515	515	-	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	76,205	2,034	-	-	67,987	-	6,184	-	-	-
FOREST SERVICE	2,900	2,900	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	11,209	2,914	8,295	-	-	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	10,738	2,443	8,295	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	471	471	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	435,790	186,312	177,694	10,386	-	60,998	-	400	-	-
DEPARTMENT OF THE ARMY	92,792	92,792	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	74,881	74,881	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	143,724	13,101	82,919	-	-	47,704	-	-	-	-
DEFENSE AGENCIES	124,393	5,538	94,775	10,386	-	13,294	-	400	-	-
DEPARTMENT OF EDUCATION	5,170	168	-	-	5,002	-	-	-	-	-
DEPARTMENT OF ENERGY	914,970	938	113,803	193,929	145,701	438,570	16,275	5,754	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	19,529	19,529	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	500	500	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	19,029	19,029	-	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	9,357	8,600	757	-	-	-	-	-	-	-
GEOLOGICAL SURVEY 1/	757	-	757	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	8,600	8,600	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	13,937	13,637	-	-	-	-	-	-	300	-
COAST GUARD	300	-	-	-	-	-	-	-	300	-
FEDERAL AVIATION ADMINISTRATION	13,237	13,237	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	400	400	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	125	125	-	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	25	25	-	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	19,500	19,500	-	-	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	6,133	129	911	-	1,486	-	1,206	-	-	2,401
NATIONAL AERONAUTICS & SPACE ADMIN	428,236	2,371	406,809	-	-	19,056	-	-	-	-
NATIONAL SCIENCE FOUNDATION	56,863	3,269	11,230	-	25,664	16,700	-	-	-	-
SMITHSONIAN INSTITUTION	660	660	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	445	445	-	-	-	-	-	-	-	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

60 BEST COPY AVAILABLE

TABLE 31. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1989 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	2,428,749	470,691	1,016,057	228,821	192,125	505,383	2,396	6,667	300	6,309
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	109,170	77,150	-	-	32,020	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	73,698	73,698	-	-	-	-	-	-	-	-
ANIMAL & PLANT HEALTH INSPECTION SVC	602	602	-	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	33,270	1,250	-	-	32,020	-	-	-	-	-
FOREST SERVICE	1,600	1,600	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	11,916	4,912	7,004	-	-	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	11,445	4,441	7,004	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	471	471	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	599,764	223,701	332,669	10,794	-	32,600	-	-	-	-
DEPARTMENT OF THE ARMY	70,462	70,462	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	124,222	124,222	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	280,307	22,798	224,915	6,594	-	26,000	-	-	-	-
DEFENSE AGENCIES	124,773	6,219	107,754	4,200	-	6,600	-	-	-	-
DEPARTMENT OF EDUCATION	1,860	60	-	-	1,800	-	-	-	-	-
DEPARTMENT OF ENERGY	926,360	1,130	121,564	218,027	133,017	444,645	1,310	6,667	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	115,822	115,822	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	25,500	25,500	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	90,322	90,322	-	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	10,042	8,764	1,278	-	-	-	-	-	-	-
BUREAU OF MINES	2,064	2,064	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY 1/	1,278	-	1,278	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	6,700	6,700	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	12,731	12,431	-	-	-	-	-	-	300	-
COAST GUARD	300	-	-	-	-	-	-	-	300	-
FEDERAL AVIATION ADMINISTRATION	11,681	11,681	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	750	750	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	125	125	-	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	25	25	-	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	12,400	12,400	-	-	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	4,220	115	434	-	1,351	-	1,086	-	-	1,234
NATIONAL AERONAUTICS & SPACE ADMIN	561,254	3,107	540,837	-	-	12,235	-	-	-	5,075
NATIONAL SCIENCE FOUNDATION	59,436	7,325	12,271	-	23,937	15,903	-	-	-	-
SMITHSONIAN INSTITUTION	3,424	3,424	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	225	225	-	-	-	-	-	-	-	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 32. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1990 (EST.)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	2,439,869	302,978	1,031,167	255,369	86,356	749,042	2,660	9,890	300	2,107
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	58,335	58,335	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	53,350	53,350	-	-	-	-	-	-	-	-
ANIMAL & PLANT HEALTH INSPECTION SVC	485	485	-	-	-	-	-	-	-	-
FOREST SERVICE	4,500	4,500	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	14,914	4,569	10,345	-	-	-	-	-	-	-
NAT'L INSTITUTE OF STANDARDS & TECH	14,443	4,098	10,345	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	471	471	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	516,393	165,477	314,326	10,590	-	26,000	-	-	-	-
DEPARTMENT OF THE ARMY	61,381	61,381	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	82,934	82,934	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	278,583	18,630	223,363	10,590	-	26,000	-	-	-	-
DEFENSE AGENCIES	93,495	2,532	90,963	-	-	-	-	-	-	-
DEPARTMENT OF EDUCATION	1,800	-	-	-	1,800	-	-	-	-	-
DEPARTMENT OF ENERGY	1,102,254	480	122,098	244,779	39,713	683,727	1,567	9,890	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	22,100	22,100	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	500	500	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	21,600	21,600	-	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	3,385	2,100	1,285	-	-	-	-	-	-	-
GEOLOGICAL SURVEY 1/	1,285	-	1,285	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	2,100	2,100	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	27,515	27,215	-	-	-	-	-	-	300	-
COAST GUARD	300	-	-	-	-	-	-	-	300	-
FEDERAL AVIATION ADMINISTRATION	26,465	26,465	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	750	750	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	125	125	-	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	25	25	-	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	6,700	6,700	-	-	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	5,084	72	444	-	1,368	-	1,093	-	-	2,107
NATIONAL AERONAUTICS & SPACE ADMIN	588,922	3,261	563,854	-	-	21,807	-	-	-	-
NATIONAL SCIENCE FOUNDATION	85,713	5,915	18,815	-	43,475	17,508	-	-	-	-
SMITHSONIAN INSTITUTION	6,389	6,389	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	240	240	-	-	-	-	-	-	-	-

1/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

62 BEST COPY AVAILABLE

TABLE 33. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	RESEARCH, DEVELOPMENT AND R&D PLANT	RESEARCH AND DEVELOPMENT	R&D PLANT
TOTAL	57,661,153	55,636,099	2,025,054
NEW ENGLAND	3,919,216	3,813,601	105,615
CONNECTICUT	620,502	619,475	1,027
MAINE	40,099	39,792	307
MASSACHUSETTS	2,796,215	2,701,966	94,249
NEW HAMPSHIRE	60,890	60,841	49
RHODE ISLAND	337,658	335,629	2,029
VERMONT	63,852	55,898	7,954
MIDDLE ATLANTIC	5,853,854	5,629,635	224,219
NEW JERSEY	1,261,903	1,209,295	52,608
NEW YORK	2,804,007	2,688,733	115,274
PENNSYLVANIA	1,787,944	1,731,607	56,337
EAST NORTH CENTRAL	3,822,171	3,668,684	153,487
ILLINOIS	927,380	850,707	76,673
INDIANA	313,955	312,105	1,850
MICHIGAN	421,971	417,547	4,424
OHIO	1,933,664	1,865,166	68,498
WISCONSIN	225,201	223,159	2,042
WEST NORTH CENTRAL	1,658,789	1,537,562	21,227
IOWA	200,931	197,121	3,810
KANSAS	126,869	126,728	141
MINNESOTA	577,533	576,834	699
MISSOURI	640,287	637,633	2,654
NEBRASKA	56,232	52,108	4,124
NORTH DAKOTA	41,677	32,482	9,195
SOUTH DAKOTA	15,260	14,656	604
SOUTH ATLANTIC	13,736,618	13,414,037	322,581
DELAWARE	37,234	35,974	1,260
DISTRICT OF COLUMBIA	2,939,949	2,924,559	15,390
FLORIDA	2,219,482	2,133,441	86,041
GEORGIA	353,125	350,396	2,729
MARYLAND	4,434,311	4,355,063	79,248
NORTH CAROLINA	625,988	625,043	945
SOUTH CAROLINA	155,308	147,059	8,249
VIRGINIA	2,834,604	2,729,121	105,483
WEST VIRGINIA	136,617	113,381	23,236
EAST SOUTH CENTRAL	2,312,634	2,184,407	128,227
ALABAMA	1,415,485	1,363,664	51,821
KENTUCKY	68,531	68,451	80
MISSISSIPPI	204,207	185,073	19,134
TENNESSEE	624,411	567,219	57,192
WEST SOUTH CENTRAL	3,026,350	2,942,642	83,708
ARKANSAS	223,109	222,716	393
LOUISIANA	133,218	101,294	31,924
OKLAHOMA	114,376	103,701	10,675
TEXAS	2,555,647	2,514,931	40,716
MOUNTAIN	5,750,462	5,293,882	456,580
ARIZONA	391,204	369,411	21,793
COLORADO	1,461,876	1,408,419	53,457
IDAHO	289,743	250,149	39,594
MONTANA	35,636	35,480	156
NEVADA	546,625	443,348	103,277
NEW MEXICO	2,527,446	2,296,054	231,392
UTAH	468,744	461,989	6,755
WYOMING	29,188	29,032	156
PACIFIC	17,446,469	16,964,397	482,072
ALASKA	56,895	50,495	6,400
CALIFORNIA	15,324,813	14,895,772	429,041
HAWAII	89,110	82,227	6,883
OREGON	178,861	170,305	8,556
WASHINGTON	1,796,790	1,765,598	31,192
OUTLYING AREAS	79,484	33,019	46,465
OFFICES ABROAD	55,106	54,233	873

NOTE: THE OBLIGATIONS OF THE 10 MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 98 PERCENT OF TOTAL FEDERAL R&D AND R&D PLANT OBLIGATIONS IN FISCAL YEAR 1988.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 34. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND AGENCY: FISCAL YEAR 1988

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL	55,636,099	1,012,919	388,800	35,177,481	5,035,592	7,113,080	416,601	300,043	347,430	4,313,006	1,531,147
CALIFORNIA	14,895,772	61,336	21,154	11,143,780	1,022,586	853,511	26,722	20,324	27,628	1,510,668	208,063
MARYLAND	4,355,063	85,628	150,056	2,107,801	39,296	1,488,255	12,204	17,993	17,754	404,244	31,832
DISTRICT OF COLUMBIA	2,924,559	114,227	6,979	2,110,126	128,184	143,964	21,154	37,767	13,209	147,837	201,112
VIRGINIA	2,729,121	9,878	4,429	2,136,963	28,026	87,592	33,221	31,018	33,763	344,011	20,220
MASSACHUSETTS	2,701,966	17,895	24,781	1,786,083	61,420	584,587	3,337	25,639	18,194	55,364	124,666
NEW YORK	2,688,733	24,091	1,780	1,261,130	452,094	728,499	5,757	3,203	7,808	41,389	162,982
TEXAS	2,514,931	45,392	1,373	1,680,709	26,059	270,563	5,320	12,587	14,886	416,018	42,024
NEW MEXICO	2,296,054	4,700	25	1,131,588	1,099,660	20,623	5,015	317	1,036	26,850	6,240
FLORIDA	2,133,441	26,292	40,454	1,580,122	19,172	91,319	7,283	23,315	9,784	313,700	22,000
OHIO	1,865,166	13,070	849	1,329,908	79,852	160,185	3,027	5,471	29,112	222,296	21,396
WASHINGTON	1,765,598	27,101	43,547	1,289,880	154,333	183,825	15,630	1,420	3,609	14,609	31,644
PENNSYLVANIA	1,731,607	36,069	706	841,854	312,450	333,762	32,703	10,609	7,397	89,686	66,371
COLORADO	1,408,419	21,348	39,773	1,005,341	81,410	84,254	26,599	4,932	1,952	74,634	68,176
ALABAMA	1,363,664	10,907	147	926,032	9,740	88,481	6,626	126	4,517	311,801	5,287
NEW JERSEY	1,209,295	3,743	10,137	840,679	105,234	63,460	4,274	42,768	9,743	72,843	56,414
ILLINOIS	850,707	33,618	960	197,813	329,148	188,330	3,242	3,049	3,594	13,895	77,058
MISSOURI	637,633	13,256	538	459,709	2,328	127,713	9,367	1,323	553	11,094	11,752
NORTH CAROLINA	625,043	27,108	1,772	212,026	7,779	272,226	3,495	21,023	49,000	6,289	24,325
CONNECTICUT	619,475	3,914	1,713	366,521	37,640	144,358	2,354	13,062	7,830	25,443	16,640
MINNESOTA	576,834	17,557	308	378,368	4,990	127,213	11,944	50	10,392	7,775	18,237
TENNESSEE	567,219	8,132	754	178,365	239,486	96,034	2,993	876	10,527	22,307	7,745
UTAH	461,989	9,205	277	369,481	6,656	44,928	10,890	56	791	7,793	11,912
NEVADA	443,348	1,918	1,033	77,817	339,640	3,312	8,955	95	7,216	1,063	2,299
MICHIGAN	417,547	15,750	5,271	145,562	17,281	158,955	6,081	1,484	7,514	14,567	45,082
ARIZONA	369,411	13,691	167	229,618	3,679	46,740	9,155	4,471	1,046	18,870	41,974
GEORGIA	350,396	40,326	424	134,785	11,328	118,576	4,393	6,295	7,067	14,034	13,168
RHODE ISLAND	335,629	1,428	1,376	277,278	2,743	27,119	2,087	644	6,685	1,933	14,336
INDIANA	312,105	9,938	100	186,635	14,685	57,222	2,828	705	884	4,988	34,120
IDAHO	250,149	12,946	-	4,486	219,244	1,443	10,142	31	370	627	860
WISCONSIN	223,159	27,567	1,598	12,075	14,927	97,781	7,837	107	2,168	32,364	26,735
ARKANSAS	222,716	7,612	-	179,753	745	29,300	3,405	130	415	230	1,126
IOWA	197,121	23,534	168	74,786	18,764	62,344	2,773	69	919	7,366	6,398
MISSISSIPPI	185,073	35,327	5,370	92,016	1,714	8,386	2,991	193	2,331	35,435	1,310
OREGON	170,305	23,430	2,017	36,520	7,342	56,447	16,319	1,078	8,119	2,492	16,541
SOUTH CAROLINA	147,059	12,298	1,570	31,243	71,117	21,048	2,924	734	669	567	4,889
KANSAS	126,728	11,666	24	82,870	1,888	19,877	3,009	163	412	1,999	4,820
WEST VIRGINIA	113,381	12,623	-	34,311	26,841	11,512	7,736	155	1,569	195	18,439
OKLAHOMA	103,701	13,992	3,819	26,003	15,117	16,746	3,447	3,757	10,913	5,877	4,030
LOUISIANA	101,294	24,368	801	10,889	1,966	42,740	6,117	572	966	8,030	4,845
HAWAII	82,227	11,272	3,307	29,775	1,586	10,446	7,916	77	37	6,611	11,200
KENTUCKY	68,451	9,888	19	16,283	2,120	32,414	2,789	630	320	587	3,401
NEW HAMPSHIRE	60,841	3,259	239	21,391	1,041	19,825	2,169	18	552	7,258	5,089
VERMONT	55,898	3,033	49	24,399	242	24,021	1,665	39	167	372	1,911
NEBRASKA	52,108	16,655	284	11,497	978	14,621	2,876	62	545	523	4,067
ALASKA	50,495	5,014	5,209	7,030	993	1,661	19,819	118	-	2,747	7,904
MAINE	39,792	3,135	484	15,453	152	12,321	2,833	68	1,348	450	3,548
DELAWARE	35,974	3,128	1,226	16,970	1,061	3,220	1,762	14	90	2,122	6,381
MONTANA	35,480	10,474	89	4,043	1,432	12,007	4,209	390	536	315	1,985
NORTH DAKOTA	32,482	21,492	280	762	998	1,742	5,157	230	241	88	1,492
WYOMING	29,032	5,239	14	2,151	7,916	4,656	4,365	654	345	221	3,471
SOUTH DAKOTA	14,656	4,265	55	1,755	265	1,209	5,771	41	-	520	775
OUTLYING AREAS	33,019	10,131	1,181	5,334	244	11,154	1,914	91	106	9	2,855
OFFICES ABROAD	54,233	3,053	114	49,712	-	553	-	-	801	-	-

NOTE: THE OBLIGATIONS OF THE 10 MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 98 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FISCAL YEAR 1988.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

64 BEST COPY AVAILABLE

TABLE 35A. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL, ALL AGENCIES	16,309.9	15,863.4	16,153.8	17,098.0	17,574.5	18,176.5	19,859.5	21,616.4	24,817.6	27,140.8	29,620.6
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	270.8	286.4	310.0	357.4	369.4	387.5	427.9	478.6	559.9	645.9	685.7
AGRICULTURAL COOPERATIVE SVC 1/	.8	.9	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A
AGRICULTURAL MARKETING SVC 2/	N/A	N/A	N/A	-	-	-	-	-	-	-	1.0
AGRICULTURAL RESEARCH SVC 3/	158.5	164.0	177.5	198.0	201.2	208.3	221.6	255.3	310.1	347.5	365.0
ANIMAL & PLANT HEALTH INSPECTION SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COOPERATIVE STATE RSCH SVC 4/	58.3	62.1	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6
ECON, STAT & COOP SVC 5/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.7	35.5
ECONOMIC RESEARCH SERVICE	13.2	14.9	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FEDERAL GRAIN INSPECTION SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	39.0	43.7	47.1	58.7	59.6	69.6	81.5	82.8	92.1	108.3	111.0
HUMAN NUTRITION INFO SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL AGRICULTURAL LIBRARY	.4	.2	.4	.2	.3	.1	.0	.0	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
OFFICE OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.7
NAT'L AGRICULTURAL STAT SVC	.6	.7	.7	.7	.7	.6	1.2	1.9	N/A	N/A	N/A
DEPARTMENT OF COMMERCE, TOTAL	75.3	125.5	152.9	194.7	198.5	192.2	224.9	235.5	251.8	287.7	311.8
BUREAU OF THE CENSUS	2.3	3.0	4.1	3.9	1.0	1.0	1.0	2.5	2.6	3.4	3.1
ECONOMIC DEVELOPMENT ADMIN	5.3	8.8	4.6	6.6	6.3	4.1	10.3	15.1	15.0	38.5	43.1
ENVIRONMENTAL SCIENCE SVCS ADMINISTRATION	26.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MARITIME ADMINISTRATION	8.1	12.6	24.3	22.9	25.9	25.9	23.9	21.2	19.7	20.6	20.5
MINORITY BUSINESS DEV AGENCY	3.1	3.5	-	.5	2.1	1.0	4.6	2.0	3.4	-	-
NAT'L INST OF STANDARDS & TECH	29.1	30.8	33.8	36.6	38.9	41.1	44.6	47.9	53.9	59.1	69.3
NAT'L FIRE PREVENTION & CONTROL ADMINISTRATION	N/A	N/A	N/A	-	-	-	3.6	6.4	6.6	N/A	N/A
NAT'L OCEANIC & ATMOSPHERIC ADMINISTRATION	N/A	66.4	83.4	120.1	119.3	117.0	135.1	139.1	147.2	163.7	171.2
NAT'L TELECOMM & INFO ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9	1.8	4.1
OFFICE OF TELECOMMUNICATIONS	N/A	-	2.1	3.6	3.5	1.6	1.3	.9	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	-	-	-	-	-	-	-	-	.1
PATENT AND TRADEMARK OFFICE	.4	.4	.6	.6	.6	.5	.5	.4	.5	.5	.5
US TRAVEL & TOURISM ADMIN	-	-	-	-	.8	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	7,890.0	7,500.9	7,662.7	8,492.9	8,550.6	8,589.5	9,179.6	9,798.1	11,409.0	11,786.2	12,776.4
DEPARTMENT OF THE ARMY	1,666.5	1,687.0	1,726.0	2,103.7	2,030.7	2,042.0	1,920.7	2,026.0	2,458.2	2,556.5	2,772.5
DEPARTMENT OF THE NAVY	2,159.7	2,276.1	2,311.7	2,559.7	2,690.5	2,772.6	3,162.8	3,373.8	3,878.6	4,046.7	4,403.1
DEPARTMENT OF THE AIR FORCE	3,604.2	3,049.1	3,163.2	3,325.1	3,344.1	3,283.9	3,573.1	3,799.6	4,381.1	4,422.4	4,693.1
DEFENSE AGENCIES	454.6	484.6	458.8	500.4	457.1	464.1	497.4	573.9	659.5	724.5	878.4
DEFENSE CIVIL PREPAREDNESS AGENCY	5.0	4.1	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A
TEST AND EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	N/A	N/A	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3
DIRECTOR, OPERATIONAL TEST AND EVALUATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	166.3
DEPARTMENT OF ENERGY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4,097.2	4,935.5	5,483.2
DEPT OF HLTH, EDUCATION, & WELFARE, TOTAL	1,350.2	1,252.2	1,493.4	1,806.1	1,879.1	2,331.0	2,436.5	2,616.7	2,955.9	3,281.5	N/A
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	122.2	155.6	139.4	139.5	153.0	180.2	N/A
CENTERS FOR DISEASE CONTROL	N/A	N/A	N/A	N/A	38.6	44.9	42.6	49.6	55.3	60.1	N/A
ENVIRONMENTAL HEALTH SERVICE	67.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOOD & DRUG ADMINISTRATION	8.5	21.8	25.6	30.4	30.4	44.0	36.6	38.0	43.7	65.0	N/A
HEALTH CARE FINANCING ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.0	19.4	N/A
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	-	52.7	55.8	43.3	38.2	7.4	5.5	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	13.2	12.5	17.3	17.5	17.7	18.2	N/A
HLTH SVCS & MENTAL HLTH ADMIN	187.1	188.4	223.5	249.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	-	106.8	75.7	69.9	63.7	64.9	89.5	N/A
NATIONAL INSTITUTES OF HEALTH	919.8	893.2	1,055.3	1,321.1	1,355.5	1,777.3	1,918.2	2,092.5	2,411.7	2,654.2	N/A
OFF OF ASST'T SECY FOR EDUC	-	-	-	-	-	-	.6	1.0	1.0	1.3	N/A
OFF OF ASST'T SECY FOR HLTH	-	-	-	-	-	-	-	-	32.2	36.2	N/A
OFFICE OF CHILD DEVELOPMENT	-	2.0	11.2	17.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	115.7	99.5	132.3	130.2	58.3	51.5	45.9	58.2	31.1	32.9	N/A
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	28.8	53.0	64.3	61.9	76.8	75.8	N/A
OFFICE OF INTERNATIONAL HEALTH	-	-	-	-	.7	2.7	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	N/A	N/A	-	-	-	29.8	26.2	23.7	20.0	30.2	N/A
SOCIAL & REHABILITATION SVC	44.8	34.9	34.1	43.8	53.5	8.9	9.6	18.6	N/A	N/A	N/A
SOCIAL SECURITY ADMINISTRATION	7.3	12.4	10.9	13.6	18.5	19.4	22.6	14.4	11.2	12.9	N/A

CONTINUED ON NEXT PAGE

65 BEST COPY AVAILABLE

TABLE 35A. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
DEPT OF HLTH & HUMAN SVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,558.4
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	214.4
CENTERS FOR DISEASE CONTROL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	76.3
FOOD & DRUG ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66.7
HEALTH CARE FINANCING ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.8
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.9
HEALTH RESOURCES & SVC'S ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.7
HUMAN DEVELOPMENT SERVICES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	57.1
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,000.8
OFF OF ASST'T SECY FOR HLTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.6
OFFICE OF THE SECRETARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.7
SOCIAL SECURITY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.3
DEPT OF HOUSING & URBAN DEV	18.2	29.9	47.7	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.9
DEPT OF THE INTERIOR, TOTAL	221.8	167.4	200.0	232.5	265.8	194.5	307.2	339.1	319.7	374.0	410.8
BONNEVILLE POWER ADMIN 7/	2.3	2.1	2.9	3.2	3.0	2.5	6.1	7.1	N/A	N/A	N/A
BUREAU OF LAND MANAGEMENT	.7	.7	.8	.8	.7	.7	.8	.7	.9	1.2	1.3
BUREAU OF MINES	35.0	46.5	60.3	70.9	77.5	66.1	107.6	131.3	105.3	121.1	121.3
BUREAU OF RECLAMATION	7.2	7.3	9.2	10.2	9.7	7.4	7.8	8.3	9.9	11.2	12.2
FED WATER POLLUTION CONTROL ADMINISTRATION	35.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GEOLOGICAL SURVEY 8/	35.3	39.9	41.9	51.6	67.3	66.6	106.6	110.3	117.5	133.7	145.6
HERITAGE CONSERVATION & RECREATION SVC	.2	.1	.2	.0	.0	.0	.0	.0	.0	-	-
MINERAL MANAGEMENT SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL PARK SERVICE	2.6	-	1.1	1.3	1.5	2.5	8.4	9.3	7.8	7.7	8.9
OFFICE OF COAL RESEARCH	13.5	13.5	18.8	32.4	46.4	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	.2	1.4	21.3	.5	1.7	1.0	4.5	1.7	1.4
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	2.2	5.0
OFFICE OF WATER RSCH & TECH	35.9	36.9	41.4	38.3	13.3	22.8	19.5	19.0	16.0	28.0	28.0
US FISH & WILDLIFE SERVICE	53.5	20.5	23.3	22.4	24.9	25.5	48.8	52.0	57.7	67.2	87.1
DEPARTMENT OF JUSTICE, TOTAL	4.8	8.6	10.3	23.4	33.2	34.7	44.3	33.9	27.7	60.9	43.0
DRUG ENFORCEMENT ADMIN	.6	.8	1.5	1.2	1.6	5.0	1.5	2.5	3.0	1.9	2.4
FED BUREAU OF INVESTIGATION	.3	.2	1.0	.7	.7	1.9	1.2	1.2	1.4	1.8	3.1
FEDERAL PRISON SYSTEM	.2	.2	.4	.5	.5	.5	.6	.8	1.1	3.6	3.4
IMMIGRATION & NATURALIZATION SVC	-	-	-	-	-	-	.1	.1	.3	.4	.2
OFFICE OF JUSTICE PROGRAMS	3.7	7.4	7.5	21.0	30.4	27.3	40.9	29.2	21.8	51.6	32.2
OFFICE OF LEGAL POLICY	-	-	-	-	-	-	-	-	-	1.6	1.7
DEPARTMENT OF LABOR, TOTAL	12.2	20.6	22.8	23.1	19.9	23.8	25.4	28.5	29.6	97.8	137.0
BUREAU OF APPRENTICESHIP & TRAINING	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LABOR STATISTICS	3.8	3.8	3.8	4.8	1.0	1.7	1.8	1.3	1.4	1.2	.9
EMPLOYMENT STANDARDS ADMIN	2.0	2.2	1.5	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3
EMPLOYMENT & TRAINING ADMIN	6.4	14.3	16.5	15.6	14.6	16.1	15.5	17.5	16.8	86.6	120.8
LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS 9/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LABOR-MANAGEMENT SVCS ADMIN	.1	.3	.5	.7	.9	1.2	.8	.7	3.3	2.8	3.2
OCCUPATIONAL SAFETY & HLTH ADMINISTRATION	N/A	N/A	.3	.2	.9	1.4	2.0	2.9	3.4	1.3	5.1
OFFICE OF PENSION & WELFARE BENEFIT PROGRAMS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	N/A	N/A	.2	.2	1.2	2.5	2.0	1.8	.2	2.2	1.6
PENSION BENEFIT GUARANTEE CORPORATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WAGE AND HOUR DIVISION	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POST OFFICE DEPARTMENT	19.5	38.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF STATE, TOTAL	20.6	27.6	39.0	29.2	26.6	22.9	27.9	44.5	77.6	85.4	3.2
AGENCY FOR INTERNAT'L DEV	19.7	27.3	38.6	28.6	25.1	21.4	26.7	42.9	75.3	82.6	N/A
BUREAU OF INTELLIGENCE & RSCH	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENTAL FUNDS	.1	.1	.4	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.2
PEACE CORPS	.8	.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF TRANSPORTATION, TOTAL	237.5	333.3	508.0	336.3	348.9	383.2	324.8	308.7	377.1	422.4	392.7
COAST GUARD	17.0	18.7	23.2	39.0	44.8	26.6	16.5	12.8	19.5	24.4	21.1
FEDERAL AVIATION ADMIN	140.9	56.3	347.4	102.4	81.0	125.4	109.0	100.1	106.4	111.5	120.4
FEDERAL HIGHWAY ADMINISTRATION	40.7	32.9	27.1	20.8	23.7	41.2	45.1	29.3	55.9	52.1	53.5
FEDERAL RAILROAD ADMIN	15.5	16.4	25.3	36.6	46.9	37.4	39.4	60.5	58.5	65.7	56.1
MARITIME ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L HIGHWAY TRAFFIC SAFETY ADMINISTRATION	N/A	19.5	26.7	50.0	54.6	53.6	34.0	31.4	47.2	66.5	56.8
OFFICE OF THE SECRETARY	4.8	169.5	15.3	23.6	23.6	29.7	31.3	25.8	28.0	31.7	11.7
RSCH & SPECIAL PROGRAMS ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	.9	15.0
URBAN MASS TRANS ADMIN	18.5	20.0	43.0	63.9	74.4	69.2	49.4	48.8	61.6	69.6	58.0

CONTINUED ON NEXT PAGE

66 BEST COPY AVAILABLE

TABLE 35A. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
DEPT OF THE TREASURY, TOTAL	0.6	0.6	0.8	1.3	1.0	1.1	1.7	3.8	4.9	9.9	9.6
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	N/A	N/A	N/A	-	-	-	-	-	1.1	2.0	2.5
BUREAU OF ENGRAVING & PRINTING	.6	.6	.8	1.3	1.0	1.1	1.7	2.8	2.5	3.7	2.1
INTERNAL REVENUE SERVICE	-	-	-	-	-	-	-	-	-	2.4	3.6
OFFICE OF PROTECTIVE RESEARCH .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UNITED STATES CUSTOMS SERVICE .	-	-	-	-	-	-	-	1.1	1.3	1.8	1.4
UNITED STATES MINT	-	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS ..	54.3	61.2	77.9	71.3	84.6	86.9	97.0	109.5	112.9	118.1	132.1
OTHER AGENCIES											
ACTION	N/A	N/A	.1	-	-	.2	.2	.1	.5	1.6	1.6
ADVISORY COMM ON INTERGOV'TL RELATIONS	.4	.6	.5	.7	.9	1.1	1.2	1.0	1.5	1.7	1.7
AGENCY FOR INTERNATIONAL DEV 10/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	112.9
APPALACHIAN REGIONAL COMMISSION .	-	-	3.0	-	-	-	-	.7	.7	.5	.9
ATOMIC ENERGY COMMISSION	1,708.5	1,611.9	1,615.2	1,544.4	1,712.3	N/A	N/A	N/A	N/A	N/A	N/A
CIVIL SERVICE COMMISSION	.2	.4	.6	1.0	2.4	3.1	4.4	4.0	3.9	N/A	N/A
COMMUNITY SERVICES ADMIN	N/A	N/A	N/A	N/A	N/A	21.7	23.1	10.2	24.0	24.3	20.7
CONSUMER PRODUCT SAFETY COMM	N/A	N/A	N/A	-	.3	4.3	7.9	5.8	6.7	4.1	6.6
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	N/A	N/A	1,881.6	2,439.9	2,902.6	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	N/A	90.5	137.8	123.0	205.1	170.5	259.7	265.4	297.6	389.3	412.5
FEDERAL COMMUNICATIONS COMM	.9	1.0	.6	.8	1.1	.9	1.1	1.5	2.0	2.4	2.9
FED EMERGENCY MANAGEMENT AGENCY .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0	12.6
FEDERAL ENERGY ADMINISTRATION ...	N/A	N/A	N/A	N/A	N/A	-	1.3	3.0	N/A	N/A	N/A
FEDERAL HOME LOAN BANK BOARD	.3	.4	.4	.5	.5	.7	.7	.8	1.7	1.0	.9
FEDERAL TRADE COMMISSION	.5	.4	.4	.6	.7	.9	.9	.9	1.1	1.4	1.5
GENERAL SERVICES ADMIN 11/.....	.3	.3	.2	.3	.5	1.8	1.8	1.1	.9	2.7	.5
INTERNATIONAL TRADE COMMISSION ..	-	-	-	-	-	-	-	1.5	2.6	3.1	3.4
INTERSTATE COMMERCE COMMISSION ..	-	-	-	-	-	-	-	.1	.1	.3	.2
LIBRARY OF CONGRESS	1.8	1.9	2.5	2.3	2.6	2.2	2.6	3.0	3.8	4.9	5.9
NAT'L AERONAUTICS & SPACE ADMIN .	4,018.1	3,833.4	3,298.2	3,202.5	3,130.2	3,100.5	3,207.1	3,529.0	3,288.9	3,495.6	3,725.9
NATIONAL ARCHIVES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL SCIENCE FOUNDATION	300.7	312.3	364.8	473.5	537.0	568.1	618.1	661.8	724.1	788.5	838.1
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	N/A	N/A	N/A	46.1	67.2	98.1	119.4	140.8	157.4
OFFICE OF ECONOMIC OPPORTUNITY ..	70.6	123.4	134.0	92.7	87.8	-	-	N/A	N/A	N/A	N/A
OFFICE OF EMERGENCY PREPAREDNESS	.5	1.0	.6	.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF PERSONNEL MANAGEMENT ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5	6.0
OFFICE OF SCIENCE AND TECHNOLOGY	1.8	1.9	2.0	2.0	-	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF TELECOMM POLICY	N/A	N/A	.2	1.2	.6	.3	4.1	4.6	-	-	N/A
POSTAL SERVICE	N/A	N/A	40.4	-	-	-	-	-	-	-	-
SMALL BUSINESS ADMINISTRATION ...	.2	.1	-	-	-	-	.2	.1	.5	-	-
SMITHSONIAN INSTITUTION	14.8	18.3	15.1	21.3	24.1	25.2	25.2	26.2	29.8	35.1	37.9
SPEC ACTION OFF FOR DRUG ABUSE PREVENTION	N/A	N/A	N/A	-	12.0	11.1	3.8	-	N/A	N/A	N/A
TENNESSEE VALLEY AUTHORITY	8.4	8.2	9.9	11.6	18.8	22.9	28.8	28.9	30.2	53.4	89.2
US ARMS CONTROL & DISARMAMENT AGENCY	6.0	4.2	1.7	1.9	2.0	1.1	1.0	1.4	2.2	3.6	3.5
US INFORMATION AGENCY 12/.....	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1969-76.

2/ FISCAL YEAR 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO THE AGRICULTURAL MARKETING SERVICE.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FISCAL YEAR 1980.

7/ IN FISCAL YEAR 1982 THE BONNEVILLE POWER ADMINISTRATION BECAME PART OF THE DEPARTMENT OF ENERGY.

8/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

9/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

10/ INCLUDES PROGRAMS OF THE INTERNATIONAL DEVELOPMENT COOPERATION AGENCY FOR FISCAL YEARS 1979-81.

11/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS AS COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

12/ INCLUDES THE FORMER INTERNATIONAL COMMUNICATION AGENCY FOR FISCAL YEARS 1977-81.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH OR IN THAT ORGANIZATION IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

67 BEST COPY AVAILABLE

TABLE 35B. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
TOTAL, ALL AGENCIES	31,386.1	34,589.6	37,822.4	40,009.6	44,012.1	50,180.4	52,951.2	57,099.0	58,992.2	64,330.8	68,523.9
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	744.5	794.7	818.7	881.5	905.4	983.6	1,007.9	1,059.6	1,151.8	1,158.4	1,103.5
AGRICULTURAL COOPERATIVE SVC 1/	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.7	1.4
AGRICULTURAL MARKETING SVC 2/	1.3	1.1	1.2	1.4	1.5	1.7	1.6	1.5	1.6	1.6	-
AGRICULTURAL RESEARCH SVC 3/	405.0	411.6	426.0	466.8	480.1	498.7	532.6	522.4	561.2	598.7	599.7
ANIMAL & PLANT HEALTH INSPECTION SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	4.2	4.9	6.2	8.1	7.7
COOPERATIVE STATE RSCH SVC 4/	184.2	199.4	219.0	242.3	245.7	294.3	278.6	338.3	374.7	341.1	279.4
ECON, STAT & COOP SVC 5/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SERVICE	N/A	39.3	39.3	38.8	43.7	46.4	44.6	44.8	48.1	49.6	51.7
ECONOMICS & STATISTICS SVC 6/	31.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FEDERAL GRAIN INSPECTION SVC	N/A	N/A	N/A	N/A	N/A	.9	1.0	1.2	1.0	1.1	1.1
FOREST SERVICE	115.2	129.3	112.5	108.1	108.8	114.8	114.0	127.1	138.4	139.5	147.0
HUMAN NUTRITION INFO SERVICE	N/A	-	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.8	9.5
NATIONAL AGRICULTURAL LIBRARY	-	-	-	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	5.3	3.9	2.6	5.3	8.2	7.7	7.0	5.6	5.0	2.5	1.8
OFFICE OF TRANSPORTATION	.8	.9	.9	.8	1.0	1.2	1.0	1.1	1.1	1.1	.6
NAT'L AGRICULTURAL STAT SVC	N/A	7.5	7.0	7.6	8.2	8.4	8.0	3.4	3.6	3.7	3.7
DEPARTMENT OF COMMERCE, TOTAL	347.2	329.3	337.3	335.7	367.6	403.0	408.4	407.5	400.2	417.4	325.3
BUREAU OF THE CENSUS	3.2	3.9	3.8	4.3	4.4	4.9	4.7	4.7	5.7	5.4	5.5
ECONOMIC DEVELOPMENT ADMIN	32.3	28.1	9.6	5.3	5.1	13.0	10.3	5.0	4.2	1.2	-
ENVIRONMENTAL SCIENCE SVCS ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MARITIME ADMINISTRATION	19.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MINORITY BUSINESS DEV AGENCY	-	-	-	-	-	-	-	-	-	-	-
NAT'L INST OF STANDARDS & TECH	76.4	83.0	89.9	95.7	104.9	104.7	108.5	100.7	118.7	134.8	132.9
NAT'L FIRE PREVENTION & CONTROL ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L OCEANIC & ATMOSPHERIC ADMINISTRATION	203.6	202.2	222.0	222.0	244.3	269.8	276.2	289.3	263.5	268.1	178.6
NAT'L TELECOMM & INFO ADMIN	10.7	10.9	11.3	8.3	8.7	9.1	8.4	7.8	8.1	7.9	8.3
OFFICE OF TELECOMMUNICATIONS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	.6	-	.0	.0	.1	1.4	.3	.0	-	-	-
PATENT AND TRADEMARK OFFICE	.5	1.1	.7	-	-	-	-	-	-	-	-
US TRAVEL & TOURISM ADMIN	-	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	14,189.2	16,786.3	20,913.1	23,305.3	25,902.1	30,322.4	33,224.1	35,708.7	35,850.9	38,230.2	40,758.4
DEPARTMENT OF THE ARMY	2,993.8	3,257.0	3,785.2	4,024.4	4,281.7	4,623.7	4,863.3	5,085.2	4,898.8	5,421.4	5,904.5
DEPARTMENT OF THE NAVY	4,789.3	5,103.9	6,001.0	6,209.9	7,779.0	9,309.5	9,747.9	9,576.8	9,588.9	9,741.7	10,455.5
DEPARTMENT OF THE AIR FORCE	5,319.0	7,128.8	9,442.6	10,951.3	12,377.0	13,552.2	13,723.9	15,618.0	15,177.3	15,547.0	15,347.3
DEFENSE AGENCIES	1,049.2	1,255.6	1,643.3	2,058.1	1,405.7	2,786.3	4,771.9	5,291.8	5,957.3	7,313.3	8,631.5
DEFENSE CIVIL PREPAREDNESS AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TEST AND EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	37.9	41.1	41.0	61.6	58.6	50.6	117.1	128.5	160.3	154.5	273.3
DIRECTOR, OPERATIONAL TEST AND EVALUATION	N/A	N/A	N/A	N/A	N/A	N/A	-	8.4	68.2	52.3	146.2
DEPARTMENT OF EDUCATION, TOTAL	139.4	104.9	128.0	111.7	115.7	126.0	127.9	153.5	145.9	162.9	145.7
DEPARTMENT OF ENERGY	5,777.8	5,896.4	5,622.2	5,294.4	5,526.0	5,834.4	5,430.6	5,529.4	5,951.4	6,405.2	6,384.3
DEPT OF HLTH, EDUCATION, & WELFARE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CENTERS FOR DISEASE CONTROL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL HEALTH SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOOD & DRUG ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH CARE FINANCING ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF ASST'T SECY FOR EDUC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF ASST'T SECY FOR HLTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF CHILD DEVELOPMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF HUMAN DEVELOPMENT SVCS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF INTERNATIONAL HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOCIAL & REHABILITATION SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOCIAL SECURITY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CONTINUED ON NEXT PAGE

68 BEST COPY AVAILABLE

TABLE 35B. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
DEPT OF HLTH & HUMAN SVCS, TOTAL	3,810.8	3,950.9	3,965.4	4,400.4	4,861.8	5,493.2	5,695.5	6,643.0	7,177.6	8,003.8	8,398.0
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	233.5	239.7	251.4	304.0	337.5	377.9	396.6	476.1	554.8	679.0	763.7
CENTERS FOR DISEASE CONTROL	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2	88.7	101.7	105.0
FOOD & DRUG ADMINISTRATION	76.6	72.6	75.0	102.7	80.8	95.1	87.4	85.8	91.5	124.5	108.5
HEALTH CARE FINANCING ADMIN	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3	28.2	50.5	37.0
HEALTH RESOURCES ADMIN	5.1	5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH RESOURCES & SVC'S ADMIN	N/A	N/A	10.1	13.3	18.5	19.7	12.3	9.3	10.0	10.0	10.3
HEALTH SERVICES ADMINISTRATION	26.7	20.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HUMAN DEVELOPMENT SERVICES	49.3	73.7	27.2	23.4	18.3	24.3	54.6	53.0	54.0	104.7	105.4
NATIONAL INSTITUTES OF HEALTH	3,211.2	3,355.5	3,452.6	3,806.8	4,285.2	4,856.5	5,034.5	5,886.2	6,309.9	6,882.0	7,198.8
OFF OF ASST'T SECY FOR HLTH	29.9	33.1	16.1	16.6	18.1	18.6	17.3	21.2	21.0	27.7	47.8
OFFICE OF THE SECRETARY	24.0	19.5	13.4	14.4	10.4	9.6	6.1	8.2	4.7	7.9	5.0
SOCIAL SECURITY ADMINISTRATION	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.7	16.6
DEPT OF HOUSING & URBAN DEV	56.0	48.1	28.9	32.1	18.2	18.5	15.3	16.3	18.4	18.2	21.8
DEPT OF THE INTERIOR, TOTAL	418.8	430.6	382.4	384.9	416.1	395.9	389.6	415.7	426.1	442.3	390.9
BONNEVILLE POWER ADMIN 7/	N/A	14.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LAND MANAGEMENT	1.7	1.9	5.3	3.9	3.8	4.4	3.4	3.7	3.7	3.7	3.0
BUREAU OF MINES	114.4	97.4	94.8	88.6	108.8	89.9	84.4	88.8	91.3	104.3	72.3
BUREAU OF RECLAMATION	14.1	14.3	10.1	10.0	10.4	13.2	10.2	10.7	4.4	3.9	4.5
FED WATER POLLUTION CONTROL ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GEOLOGICAL SURVEY 8/	146.3	169.8	152.6	158.4	209.9	215.7	219.5	227.6	236.9	241.3	233.0
HERITAGE CONSERVATION & RECREATION SVC	-	-	-	-	-	-	-	-	-	-	-
MINERAL MANAGEMENT SERVICE	N/A	N/A	-	1.5	1.5	1.4	1.1	1.0	1.2	1.2	1.2
NATIONAL PARK SERVICE	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.2	19.5
OFFICE OF COAL RESEARCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	2.2	1.5	.5	7.4	.1	1.9	1.0	-	.4	.4	.5
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7.8	5.8	1.5	1.5	.8	2.0	2.3	1.0	1.0	1.0	1.6
OFFICE OF WATER RSCH & TECH	30.0	21.8	12.3	2.2	3.6	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	94.1	93.3	94.2	97.7	63.3	52.4	50.5	64.3	67.8	67.3	55.3
DEPARTMENT OF JUSTICE, TOTAL	41.5	26.5	26.7	31.4	24.5	36.0	36.5	53.5	43.1	40.2	34.7
DRUG ENFORCEMENT ADMIN	2.7	1.3	3.2	2.5	1.9	1.6	2.5	2.2	2.5	1.9	1.9
FED BUREAU OF INVESTIGATION	1.4	.7	2.7	2.5	1.0	9.5	7.2	19.1	12.7	6.6	6.7
FEDERAL PRISON SYSTEM	2.1	2.5	1.7	1.7	1.6	1.5	3.0	7.1	6.0	6.1	4.2
IMMIGRATION & NATURALIZATION SVC	.3	.1	.6	.6	.6	.4	.4	.4	.3	.4	.4
OFFICE OF JUSTICE PROGRAMS	33.2	21.0	18.0	23.8	19.5	22.7	23.2	24.6	21.5	25.1	21.5
OFFICE OF LEGAL POLICY	1.8	.8	.4	.3	-	.3	.2	.1	-	-	-
DEPARTMENT OF LABOR, TOTAL	138.1	62.2	25.4	19.9	16.3	13.3	10.4	21.6	35.6	32.5	36.0
BUREAU OF APPRENTICESHIP & TRAINING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LABOR STATISTICS	.9	.3	.3	.7	.5	.6	.6	6.5	7.0	7.2	8.2
EMPLOYMENT STANDARDS ADMIN	4.9	3.2	1.4	1.4	.9	.0	-	1.0	.1	.2	.2
EMPLOYMENT & TRAINING ADMIN	121.7	52.4	16.1	9.0	6.1	3.5	3.5	5.7	14.9	12.8	17.1
LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS 9/	N/A	N/A	N/A	N/A	.3	.3	.2	.3	.4	.4	.4
LABOR-MANAGEMENT SVCS ADMIN	2.8	1.8	.7	.9	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HLTH ADMINISTRATION	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.4	4.4
OFFICE OF PENSION & WELFARE BENEFIT PROGRAMS	N/A	N/A	N/A	N/A	1.2	1.6	.3	1.0	2.7	1.3	2.4
OFFICE OF THE SECRETARY	1.4	1.1	.9	1.5	1.9	2.6	2.1	2.7	6.1	5.9	3.2
PENSION BENEFIT GUARANTEE CORPORATION	N/A	.5	1.1	1.1	.3	.2	.1	.3	.3	.3	.2
WAGE AND HOUR DIVISION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POST OFFICE DEPARTMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF STATE, TOTAL	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.1	3.2
AGENCY FOR INTERNAT'L DEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF INTELLIGENCE & RSCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENTAL FUNDS	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.1	3.2
PEACE CORPS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF TRANSPORTATION, TOTAL	384.5	434.5	322.0	369.6	465.2	437.9	397.5	335.5	317.9	347.7	357.6
COAST GUARD	18.0	26.3	20.0	19.6	19.5	19.0	16.9	17.0	21.4	18.8	19.0
FEDERAL AVIATION ADMIN	108.8	128.9	99.4	147.6	282.6	294.8	271.5	177.7	173.8	191.2	207.8
FEDERAL HIGHWAY ADMINISTRATION	58.3	51.2	40.3	50.4	46.4	49.0	46.1	76.3	73.5	82.0	75.4
FEDERAL RAILROAD ADMIN	56.4	46.1	24.5	16.5	19.2	15.0	15.4	11.2	10.4	12.2	9.3
MARITIME ADMINISTRATION	N/A	14.2	11.1	15.0	9.9	13.9	9.4	5.8	.5	.3	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMINISTRATION	63.8	66.4	55.9	52.5	57.4	28.6	22.9	28.4	28.3	33.6	34.4
OFFICE OF THE SECRETARY	10.8	10.1	3.3	4.9	4.9	4.8	5.1	4.5	5.7	5.7	8.1
RSCH & SPECIAL PROGRAMS ADMIN	14.0	13.1	6.1	6.2	5.2	2.7	2.0	2.1	2.1	1.7	1.7
URBAN MASS TRANS ADMIN	54.4	78.2	61.4	57.0	20.1	10.2	8.2	12.6	2.3	2.1	2.0

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 35B. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
DEPT OF THE TREASURY, TOTAL	12.1	11.4	13.4	15.6	13.9	24.4	24.2	27.0	26.2	29.9	31.3
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1.6	.3	-	-	-	-	-	-	-	-	-
BUREAU OF ENGRAVING & PRINTING	2.3	2.7	4.8	3.9	3.6	5.0	4.2	4.5	2.0	4.4	4.8
INTERNAL REVENUE SERVICE	4.0	4.2	5.4	8.0	8.2	15.9	14.2	14.6	14.4	14.4	17.1
OFFICE OF PROTECTIVE RESEARCH	.4	.6	-	.3	.2	.6	.5	.5	.4	.7	.8
UNITED STATES CUSTOMS SERVICE	3.9	3.5	3.2	3.4	1.9	2.3	4.9	7.1	9.3	7.8	7.9
UNITED STATES MINT	-	-	-	-	-	.6	.3	.2	.1	2.5	.7
DEPARTMENT OF VETERANS AFFAIRS	137.8	159.2	140.1	171.9	196.4	229.9	191.0	215.4	234.8	248.0	210.1
OTHER AGENCIES											
ACTION	-	-	-	-	-	-	-	-	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.4	1.4
AGENCY FOR INTERNATIONAL DEV 10/	155.6	142.2	205.9	232.0	245.0	227.2	258.7	224.3	210.6	144.9	174.6
APPALACHIAN REGIONAL COMMISSION	.8	.4	.4	.2	.5	.2	.2	.1	.2	.4	-
ATOMIC ENERGY COMMISSION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CIVIL SERVICE COMMISSION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COMMUNITY SERVICES ADMIN	30.3	18.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONSUMER PRODUCT SAFETY COMM	6.2	.5	.2	.5	1.3	2.4	2.0	2.2	1.1	1.4	.6
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	345.0	325.7	335.1	240.7	261.2	320.4	317.3	348.2	347.4	385.9	420.7
FEDERAL COMMUNICATIONS COMM	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0	1.2	1.2	1.3
FED EMERGENCY MANAGEMENT AGENCY	11.8	11.6	9.2	3.3	11.5	4.1	N/A	N/A	N/A	N/A	N/A
FEDERAL ENERGY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FEDERAL HOME LOAN BANK BOARD	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4	3.4	4.0	4.2
FEDERAL TRADE COMMISSION	3.0	1.1	1.2	1.4	1.6	1.7	1.8	.5	.4	.4	.5
GENERAL SERVICES ADMIN 11/	.2	.6	1.0	.5	2.4	.4	20.0	1.6	2.3	1.7	.8
INTERNATIONAL TRADE COMMISSION	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.0	9.4
INTERSTATE COMMERCE COMMISSION	.1	-	-	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	6.9	4.9	5.7	7.4	7.5	7.1	6.6	6.5	7.1	7.5	9.2
NAT'L AERONAUTICS & SPACE ADMIN	3,393.2	3,708.9	3,191.6	2,762.9	3,066.1	3,561.5	3,694.8	4,096.5	4,758.6	6,249.6	7,459.3
NATIONAL ARCHIVES	N/A	N/A	N/A	N/A	N/A	.5	1.0	1.1	.7	.7	.7
NATIONAL SCIENCE FOUNDATION	900.5	976.2	976.8	1,065.2	1,248.0	1,419.1	1,406.5	1,531.8	1,589.6	1,723.0	1,966.7
NUCLEAR REGULATORY COMMISSION	190.4	227.3	220.3	207.3	190.7	150.0	123.8	122.5	108.5	115.9	130.0
OFFICE OF ECONOMIC OPPORTUNITY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EMERGENCY PREPAREDNESS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF PERSONNEL MANAGEMENT	6.8	8.4	-	-	-	-	-	-	-	-	-
OFFICE OF SCIENCE AND TECHNOLOGY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF TELECOMM POLICY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POSTAL SERVICE	-	-	-	-	-	-	-	-	-	-	-
SMALL BUSINESS ADMINISTRATION	-	-	-	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	41.9	45.3	52.9	57.0	63.8	72.7	64.0	74.4	75.8	82.4	93.4
SPEC ACTION OFF FOR DRUG ABUSE PREVENTION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TENNESSEE VALLEY AUTHORITY	80.7	69.3	85.3	63.3	68.3	80.0	78.3	78.2	87.7	58.8	50.2
US ARMS CONTROL & DISARMAMENT AGENCY	3.8	2.4	1.9	1.0	1.3	1.1	.9	4.6	3.4	2.3	.2
US INFORMATION AGENCY 12/	.1	1.5	.1	.0	1.4	.1	2.0	3.5	.4	.2	-

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1969-76.

2/ FISCAL YEAR 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO THE AGRICULTURAL MARKETING SERVICE.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FISCAL YEAR 1980.

7/ IN FISCAL YEAR 1982 THE BONNEVILLE POWER ADMINISTRATION BECAME PART OF THE DEPARTMENT OF ENERGY.

8/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

9/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

10/ INCLUDES PROGRAMS OF THE INTERNATIONAL DEVELOPMENT COOPERATION AGENCY FOR FISCAL YEARS 1979-81.

11/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS AS COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

12/ INCLUDES THE FORMER INTERNATIONAL COMMUNICATION AGENCY FOR FISCAL YEARS 1977-81.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH OR IN THAT ORGANIZATION IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

70 BEST COPY AVAILABLE

TABLE 36A. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL, ALL AGENCIES	15,640.9	15,338.9	15,542.5	16,495.9	16,800.2	17,410.1	19,038.8	20,779.7	23,450.4	25,845.1	28,145.1
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	260.1	281.2	304.9	349.6	366.5	378.7	420.1	462.4	547.0	621.3	663.0
AGRICULTURAL COOPERATIVE SVC 1/	.8	.9	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A
AGRICULTURAL MARKETING SVC 2/	N/A	N/A	N/A	-	-	-	-	-	-	-	1.0
AGRICULTURAL RESEARCH SVC 3/	147.8	160.6	173.5	193.8	199.5	203.5	217.1	242.1	298.9	325.5	345.8
ANIMAL & PLANT HEALTH INSPECTION SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COOPERATIVE STATE RSCH SVC 4/	58.3	61.1	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6
ECON, STAT & COOP SVC 5/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.7	35.5
ECONOMIC RESEARCH SERVICE	13.2	14.9	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FEDERAL GRAIN INSPECTION SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	39.0	42.8	46.0	55.2	58.4	65.5	78.2	79.9	90.3	105.6	107.5
HUMAN NUTRITION INFO SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL AGRICULTURAL LIBRARY	.4	.2	.4	.2	.3	.1	.0	.0	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
OFFICE OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.7
NAT'L AGRICULTURAL STAT SVC	.6	.7	.7	.7	.7	.6	1.2	1.9	N/A	N/A	N/A
DEPARTMENT OF COMMERCE, TOTAL	72.1	121.6	143.7	187.3	190.6	180.6	215.4	228.9	244.7	283.7	309.4
BUREAU OF THE CENSUS	2.3	3.0	4.1	3.9	1.0	1.0	1.0	2.5	2.6	3.4	3.1
ECONOMIC DEVELOPMENT ADMIN	5.3	8.8	4.6	6.6	6.3	4.1	10.3	15.1	15.0	38.5	43.1
ENVIRONMENTAL SCIENCE SVCS ADMINISTRATION	25.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MARITIME ADMINISTRATION	8.1	12.6	20.7	22.2	23.8	23.1	22.9	19.0	14.8	19.6	19.6
MINORITY BUSINESS DEV AGENCY	3.1	3.5	-	.5	2.1	1.0	4.6	2.0	3.4	-	-
NAT'L INST OF STANDARDS & TECH	26.9	29.6	32.6	34.7	36.8	40.2	43.2	47.4	53.2	58.3	67.8
NAT'L FIRE PREVENTION & CONTROL ADMINISTRATION	N/A	N/A	N/A	-	-	-	3.6	6.4	6.6	N/A	N/A
NAT'L OCEANIC & ATMOSPHERIC ADMINISTRATION	N/A	63.8	79.0	115.2	115.6	109.1	128.0	135.1	145.7	161.5	171.2
NAT'L TELECOMM & INFO ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9	1.8	4.1
OFFICE OF TELECOMMUNICATIONS	N/A	-	2.1	3.6	3.5	1.6	1.3	.9	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	-	-	-	-	-	-	-	-	.1
PATENT AND TRADEMARK OFFICE	.4	.4	.6	.6	.6	.5	.5	.4	.5	.5	.5
US TRAVEL & TOURISM ADMIN	-	-	-	-	.8	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	7,696.3	7,360.4	7,509.0	8,318.1	8,404.2	8,420.4	9,012.5	9,654.7	10,963.4	11,553.6	12,506.2
DEPARTMENT OF THE ARMY	1,643.8	1,659.8	1,682.4	2,064.2	2,013.6	2,009.9	1,896.7	2,013.7	2,441.9	2,548.9	2,768.7
DEPARTMENT OF THE NAVY	2,124.2	2,257.9	2,283.7	2,519.4	2,654.8	2,718.5	3,100.2	3,328.0	3,817.4	3,998.4	4,335.0
DEPARTMENT OF THE AIR FORCE	3,498.5	2,990.0	3,113.5	3,254.3	3,273.5	3,216.2	3,513.5	3,726.6	4,031.1	4,262.3	4,525.6
DEFENSE AGENCIES	424.6	448.6	426.5	476.4	434.1	448.9	476.5	561.6	641.4	707.9	847.6
DEFENSE CIVIL PREPAREDNESS AGENCY	5.0	4.1	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A
TEST AND EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	N/A	N/A	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3
DIRECTOR, OPERATIONAL TEST AND EVALUATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	166.3
DEPARTMENT OF ENERGY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,536.2	4,244.8	4,638.8
DEPT OF HLTH, EDUCATION, & WELFARE, TOTAL	1,297.4	1,221.0	1,476.1	1,751.1	1,837.6	2,290.1	2,397.5	2,583.6	2,823.3	3,207.3	N/A
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	122.2	155.6	139.4	139.5	153.0	180.2	N/A
CENTERS FOR DISEASE CONTROL	N/A	N/A	N/A	N/A	38.6	44.9	42.6	49.6	55.3	60.1	N/A
ENVIRONMENTAL HEALTH SERVICE	60.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOOD & DRUG ADMINISTRATION	8.0	21.8	25.6	30.4	30.2	43.5	35.9	37.1	42.9	64.1	N/A
HEALTH CARE FINANCING ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.0	19.4	N/A
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	-	52.7	55.8	43.3	38.2	7.4	5.5	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	13.2	12.5	17.3	17.5	17.7	18.2	N/A
HLTH SVCS & MENTAL HLTH ADMIN	186.9	188.4	222.9	244.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	-	106.8	75.7	69.9	63.7	64.9	89.5	N/A
NATIONAL INSTITUTES OF HEALTH	892.9	873.3	1,039.0	1,271.3	1,314.2	1,736.8	1,879.9	2,060.2	2,279.9	2,580.9	N/A
OFF OF ASST'T SECY FOR EDUC	-	-	-	-	-	-	.6	1.0	1.0	1.3	N/A
OFF OF ASST'T SECY FOR HLTH	-	-	-	-	-	-	-	-	32.2	36.2	N/A
OFFICE OF CHILD DEVELOPMENT	-	2.0	11.2	17.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	96.8	88.2	132.4	130.1	58.3	51.5	45.9	58.2	31.1	32.9	N/A
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	28.8	53.0	64.3	61.9	76.8	75.8	N/A
OFFICE OF INTERNATIONAL HEALTH	-	-	-	-	.7	2.7	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	N/A	N/A	-	-	-	29.8	26.2	23.7	20.0	30.2	N/A
SOCIAL & REHABILITATION SVC	44.8	34.9	34.1	43.8	53.5	8.9	9.6	18.6	N/A	N/A	N/A
SOCIAL SECURITY ADMINISTRATION	7.3	12.4	10.9	13.6	18.5	19.4	22.6	14.4	11.2	12.9	N/A

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 36A. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
DEPT OF HLTH & HUMAN SVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,504.9
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	214.3
CENTERS FOR DISEASE CONTROL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	76.3
FOOD & DRUG ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61.0
HEALTH CARE FINANCING ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.8
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.9
HEALTH RESOURCES & SVC'S ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.7
HUMAN DEVELOPMENT SERVICES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	57.1
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,953.1
OFF OF ASST'T SECY FOR HLTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.6
OFFICE OF THE SECRETARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.7
SOCIAL SECURITY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.3
DEPT OF HOUSING & URBAN DEV	18.2	29.9	47.7	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.9
DEPT OF THE INTERIOR, TOTAL	207.6	156.8	191.5	218.7	243.7	192.4	303.3	333.2	314.7	359.0	405.8
BONNEVILLE POWER ADMIN 7/	2.1	1.8	1.9	2.5	2.8	2.4	6.0	7.0	N/A	N/A	N/A
BUREAU OF LAND MANAGEMENT	.7	.7	.8	.8	.7	.7	.8	.7	.9	1.2	1.3
BUREAU OF MINES	35.0	46.5	60.3	70.9	77.5	66.1	107.6	131.3	101.9	114.0	121.0
BUREAU OF RECLAMATION	7.2	7.3	9.2	10.2	9.7	7.4	7.8	8.3	9.9	11.2	12.2
FED WATER POLLUTION CONTROL ADMINISTRATION	32.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GEOLOGICAL SURVEY 8/	35.3	39.9	41.9	51.5	66.6	66.2	106.6	110.3	117.5	133.7	145.6
HERITAGE CONSERVATION & RECREATION SVC	.2	.1	.2	.0	.0	.0	.0	.0	.0	-	-
MINERAL MANAGEMENT SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL PARK SERVICE	2.6	-	1.1	1.3	1.5	2.5	8.4	9.3	7.8	7.7	8.9
OFFICE OF COAL RESEARCH	8.7	5.7	16.4	20.3	26.5	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	.2	1.4	21.3	.5	1.7	1.0	4.5	1.7	1.4
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	2.2	5.0
OFFICE OF WATER RSCH & TECH	32.7	34.9	36.4	38.0	13.3	22.3	19.5	19.0	15.1	27.4	27.2
US FISH & WILDLIFE SERVICE	50.7	20.0	23.0	21.9	23.7	24.3	45.0	46.2	57.1	59.9	83.1
DEPARTMENT OF JUSTICE, TOTAL	4.8	8.6	10.3	23.4	33.2	34.7	44.3	33.9	27.7	60.9	43.0
DRUG ENFORCEMENT ADMIN	.6	.8	1.5	1.2	1.6	5.0	1.5	2.5	3.0	1.9	2.4
FED BUREAU OF INVESTIGATION	.3	.2	1.0	.7	.7	1.9	1.2	1.2	1.4	1.8	3.1
FEDERAL PRISON SYSTEM	.2	.2	.4	.5	.5	.5	.6	.8	1.1	3.6	3.4
IMMIGRATION & NATURALIZATION SVC	-	-	-	-	-	-	.1	.1	.3	.4	.2
OFFICE OF JUSTICE PROGRAMS	3.7	7.4	7.5	21.0	30.4	27.3	40.9	29.2	21.8	51.6	32.2
OFFICE OF LEGAL POLICY	-	-	-	-	-	-	-	-	-	1.6	1.7
DEPARTMENT OF LABOR, TOTAL	12.2	20.6	22.8	23.1	19.9	23.8	25.4	28.5	29.6	97.8	137.0
BUREAU OF APPRENTICESHIP & TRAINING	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LABOR STATISTICS	3.8	3.8	3.8	4.8	1.0	1.7	1.8	1.3	1.4	1.2	.9
EMPLOYMENT STANDARDS ADMIN	2.0	2.2	1.5	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3
EMPLOYMENT & TRAINING ADMIN	6.4	14.3	16.5	15.6	14.6	16.1	15.5	17.5	16.8	86.6	120.8
LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS 9/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LABOR-MANAGEMENT SVCS ADMIN	.1	.3	.5	.7	.9	1.2	.8	.7	3.3	2.8	3.2
OCCUPATIONAL SAFETY & HLTH ADMINISTRATION	N/A	N/A	.3	.2	.9	1.4	2.0	2.9	3.4	1.3	5.1
OFFICE OF PENSION & WELFARE BENEFIT PROGRAMS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	N/A	N/A	.2	.2	1.2	2.5	2.0	1.8	.2	2.2	1.6
PENSION BENEFIT GUARANTEE CORPORATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WAGE AND HOUR DIVISION	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POST OFFICE DEPARTMENT	19.4	38.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF STATE, TOTAL	20.3	27.6	30.1	26.6	26.2	22.5	27.9	39.4	61.4	85.2	3.2
AGENCY FOR INTERNAT'L DEV	19.5	27.3	29.7	26.0	24.7	21.1	26.7	37.8	59.1	82.4	N/A
BUREAU OF INTELLIGENCE & RSCH	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENTAL FUNDS	.1	.1	.4	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.2
PEACE CORPS	.8	.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF TRANSPORTATION, TOTAL	231.8	327.8	497.2	310.5	310.6	369.8	311.6	294.5	354.6	408.3	370.1
COAST GUARD	16.7	18.4	21.6	30.3	27.7	21.6	15.9	12.4	18.9	23.7	21.1
FEDERAL AVIATION ADMIN	140.0	56.1	346.3	100.9	79.5	125.0	105.6	98.1	103.4	110.5	110.5
FEDERAL HIGHWAY ADMINISTRATION	40.1	32.8	26.8	20.7	23.6	40.8	44.7	28.9	55.5	51.7	52.9
FEDERAL RAILROAD ADMIN	11.7	11.5	21.6	26.3	35.5	33.5	32.4	50.4	41.9	53.9	44.2
MARITIME ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L HIGHWAY TRAFFIC SAFETY ADMINISTRATION	N/A	19.5	26.7	50.0	54.6	53.6	34.0	31.4	47.0	66.3	56.6
OFFICE OF THE SECRETARY	4.8	169.5	15.3	23.6	23.6	29.7	31.3	25.8	28.0	31.7	11.7
RSCH & SPECIAL PROGRAMS ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	.9	15.0
URBAN MASS TRANS ADMIN	18.5	20.0	39.0	58.8	66.2	65.6	47.7	47.5	59.9	69.6	58.0

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 36A. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
DEPT OF THE TREASURY, TOTAL	0.6	0.6	0.8	1.3	1.0	1.1	1.7	3.7	4.8	9.9	9.5
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	N/A	N/A	N/A	-	-	-	-	-	1.1	2.0	2.5
BUREAU OF ENGRAVING & PRINTING	.6	.6	.8	1.3	1.0	1.1	1.7	2.8	2.5	3.7	2.1
INTERNAL REVENUE SERVICE	-	-	-	-	-	-	-	-	-	2.4	3.6
OFFICE OF PROTECTIVE RESEARCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UNITED STATES CUSTOMS SERVICE	-	-	-	-	-	-	-	1.0	1.2	1.8	1.3
UNITED STATES MINT	-	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	50.2	58.6	62.9	69.1	74.3	84.8	94.8	97.7	107.0	114.0	127.0
OTHER AGENCIES											
ACTION	N/A	N/A	.1	-	-	.2	.2	.1	.5	1.6	1.6
ADVISORY COMM ON INTERGOV'TL RELATIONS	.4	.6	.5	.7	.9	1.1	1.2	1.0	1.5	1.7	1.7
AGENCY FOR INTERNATIONAL DEV 10/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	106.5
APPALACHIAN REGIONAL COMMISSION	-	-	3.0	-	-	-	-	.7	.7	.5	.9
ATOMIC ENERGY COMMISSION	1,405.9	1,346.0	1,302.9	1,297.7	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A
CIVIL SERVICE COMMISSION	.2	.4	.6	1.0	2.4	3.1	4.4	4.0	3.9	N/A	N/A
COMMUNITY SERVICES ADMIN	N/A	N/A	N/A	N/A	N/A	21.7	23.1	10.2	24.0	24.3	20.7
CONSUMER PRODUCT SAFETY COMM	N/A	N/A	N/A	-	.3	4.3	6.0	5.6	6.7	3.8	3.9
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	N/A	1,488.9	2,047.3	2,463.8	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	N/A	88.5	136.7	122.4	180.6	169.2	257.7	259.1	295.5	384.6	410.1
FEDERAL COMMUNICATIONS COMM	.9	1.0	.6	.7	1.1	.9	1.1	1.5	2.0	2.4	2.9
FED EMERGENCY MANAGEMENT AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0	12.6
FEDERAL ENERGY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	-	1.3	3.0	N/A	N/A	N/A
FEDERAL HOME LOAN BANK BOARD	.3	.4	.4	.5	.5	.7	.7	.8	1.7	1.0	.9
FEDERAL TRADE COMMISSION	.5	.4	.4	.6	.7	.9	.9	.9	1.1	1.4	1.5
GENERAL SERVICES ADMIN 11/	.3	.3	.2	.3	.5	1.8	1.8	1.1	.9	2.7	.5
INTERNATIONAL TRADE COMMISSION	-	-	-	-	-	-	-	1.5	2.6	3.1	3.4
INTERSTATE COMMERCE COMMISSION	-	-	-	-	-	-	-	.1	.1	.3	.2
LIBRARY OF CONGRESS	1.8	1.9	2.5	2.3	2.6	2.2	2.6	3.0	3.8	4.9	5.9
NAT'L AERONAUTICS & SPACE ADMIN	3,963.3	3,799.9	3,257.9	3,157.2	3,060.9	3,002.2	3,064.4	3,446.8	3,170.8	3,333.3	3,578.4
NATIONAL ARCHIVES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL SCIENCE FOUNDATION	273.8	289.0	336.9	454.8	479.9	556.4	595.0	609.3	697.0	748.8	807.9
NUCLEAR REGULATORY COMMISSION	N/A	N/A	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8
OFFICE OF ECONOMIC OPPORTUNITY	70.6	123.4	134.0	92.7	87.8	-	-	N/A	N/A	N/A	N/A
OFFICE OF EMERGENCY PREPAREDNESS	.5	1.0	.6	.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF PERSONNEL MANAGEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5	6.0
OFFICE OF SCIENCE AND TECHNOLOGY	1.8	1.9	2.0	2.0	-	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF TELECOMM POLICY	N/A	N/A	.2	1.2	.6	.3	4.1	4.6	-	-	N/A
POSTAL SERVICE	N/A	N/A	39.7	-	-	-	-	-	-	-	-
SMALL BUSINESS ADMINISTRATION	.2	.1	-	-	-	-	.2	.1	.5	-	-
SMITHSONIAN INSTITUTION	14.8	18.2	15.1	21.3	24.0	24.7	24.8	25.7	29.7	34.9	36.9
SPEC ACTION OFF FOR DRUG ABUSE PREVENTION	N/A	N/A	N/A	-	12.0	11.1	3.8	-	N/A	N/A	N/A
TENNESSEE VALLEY AUTHORITY	8.3	8.2	9.3	10.1	14.3	13.2	16.6	18.7	26.5	31.5	38.4
US ARMS CONTROL & DISARMAMENT AGENCY	6.0	4.2	1.7	1.9	2.0	1.1	1.0	1.4	2.2	3.6	3.5
US INFORMATION AGENCY 12/	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1969-76.

2/ FISCAL YEAR 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO THE AGRICULTURAL MARKETING SERVICE.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FISCAL YEAR 1980.

7/ IN FISCAL YEAR 1982 THE BONNEVILLE POWER ADMINISTRATION BECAME PART OF THE DEPARTMENT OF ENERGY.

8/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

9/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

10/ INCLUDES PROGRAMS OF THE INTERNATIONAL DEVELOPMENT COOPERATION AGENCY FOR FISCAL YEARS 1979-81.

11/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS AS COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

12/ INCLUDES THE FORMER INTERNATIONAL COMMUNICATION AGENCY FOR FISCAL YEARS 1977-81.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH OR IN THAT ORGANIZATION IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 36B. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
TOTAL, ALL AGENCIES	29,830.4	33,103.9	36,432.6	38,711.5	42,224.9	48,359.6	51,412.4	55,253.1	56,935.1	61,902.0	66,084.0
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	687.6	774.0	797.3	847.6	866.2	943.0	928.5	947.9	1,016.6	1,049.3	1,045.2
AGRICULTURAL COOPERATIVE SVC 1/	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.7	1.4
AGRICULTURAL MARKETING SVC 2/..	1.3	1.1	1.2	1.4	1.5	1.7	1.6	1.5	1.6	1.6	-
AGRICULTURAL RESEARCH SVC 3/...	351.8	394.1	404.9	443.4	451.3	469.7	463.4	478.6	505.7	525.0	546.3
ANIMAL & PLANT HEALTH INSPECTION SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	4.2	4.9	5.6	7.5	7.2
COOPERATIVE STATE RSCH SVC 4/..	184.2	199.4	219.0	232.3	235.7	284.3	269.0	270.7	298.4	307.9	279.4
ECON, STAT & COOP SVC 5/.....	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SERVICE	N/A	39.3	39.3	38.8	43.7	46.4	44.6	44.8	48.1	49.6	51.7
ECONOMICS & STATISTICS SVC 6/..	31.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FEDERAL GRAIN INSPECTION SVC ..	N/A	N/A	N/A	N/A	N/A	.9	1.0	1.2	1.0	1.1	1.1
FOREST SERVICE	111.5	126.1	112.1	107.7	108.4	113.1	113.3	126.7	135.5	137.9	142.5
HUMAN NUTRITION INFO SERVICE ..	N/A	-	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.8	9.5
NATIONAL AGRICULTURAL LIBRARY .	-	-	-	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	5.3	3.9	2.6	5.3	8.2	7.7	7.0	5.6	5.0	2.5	1.8
OFFICE OF TRANSPORTATION	.8	.9	.9	.8	1.0	1.2	1.0	1.1	1.1	1.1	.6
NAT'L AGRICULTURAL STAT SVC ...	N/A	7.5	7.0	7.6	8.2	8.4	8.0	3.4	3.6	3.7	3.7
DEPARTMENT OF COMMERCE, TOTAL ...	342.5	327.9	336.3	335.0	358.2	398.8	399.2	402.2	388.9	405.5	310.4
BUREAU OF THE CENSUS	3.2	3.9	3.8	4.3	4.4	4.9	4.7	4.7	5.7	5.4	5.5
ECONOMIC DEVELOPMENT ADMIN	32.3	28.1	9.6	5.3	5.1	13.0	10.3	5.0	4.2	1.2	-
ENVIRONMENTAL SCIENCE SVCS ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MARITIME ADMINISTRATION	19.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MINORITY BUSINESS DEV AGENCY ..	-	-	-	-	-	-	-	-	-	-	-
NAT'L INST OF STANDARDS & TECH	76.2	82.5	88.8	95.0	95.5	100.5	100.8	98.6	107.9	123.4	118.4
NAT'L FIRE PREVENTION & CONTROL ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L OCEANIC & ATMOSPHERIC ADMINISTRATION	199.8	201.4	222.0	222.0	244.3	269.8	274.7	286.1	263.0	267.6	178.1
NAT'L TELECOMM & INFO ADMIN ...	10.7	10.9	11.3	8.3	8.7	9.1	8.4	7.8	8.1	7.9	8.3
OFFICE OF TELECOMMUNICATIONS ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	.6	-	.0	.0	.1	1.4	.3	.0	-	-	-
PATENT AND TRADEMARK OFFICE ...	.5	1.1	.7	-	-	-	-	-	-	-	-
US TRAVEL & TOURISM ADMIN	-	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	13,981.0	16,508.6	20,622.6	22,992.8	25,372.9	29,791.5	32,937.9	35,231.5	35,415.1	37,630.4	40,242.0
DEPARTMENT OF THE ARMY	2,980.0	3,244.2	3,760.5	3,998.1	4,225.5	4,570.8	4,809.4	5,019.5	4,806.0	5,350.9	5,843.1
DEPARTMENT OF THE NAVY	4,706.1	5,006.0	5,845.1	6,068.2	7,605.6	9,127.4	9,650.3	9,507.8	9,514.1	9,617.5	10,372.6
DEPARTMENT OF THE AIR FORCE ...	5,211.0	6,969.2	9,357.9	10,812.6	12,091.6	13,260.9	13,593.8	15,347.7	15,033.6	15,266.7	15,068.7
DEFENSE AGENCIES	1,046.0	1,248.2	1,618.1	2,052.3	1,391.5	2,781.7	4,767.4	5,219.7	5,832.9	7,188.5	8,538.0
DEFENSE CIVIL PREPAREDNESS AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TEST AND EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	37.9	41.1	41.0	61.6	58.6	50.6	117.1	128.5	160.3	154.5	273.3
DIRECTOR, OPERATIONAL TEST AND EVALUATION	N/A	N/A	N/A	N/A	N/A	N/A	-	8.4	68.2	52.3	146.2
DEPARTMENT OF EDUCATION, TOTAL ..	139.4	104.9	128.0	111.7	115.7	124.9	121.3	132.5	140.7	161.1	143.9
DEPARTMENT OF ENERGY	4,753.7	4,918.2	4,708.2	4,536.7	4,673.6	4,966.0	4,688.3	4,757.2	5,036.4	5,478.9	5,282.0
DEPT OF HLTH, EDUCATION, & WELFARE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CENTERS FOR DISEASE CONTROL ...	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL HEALTH SERVICE ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOOD & DRUG ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH CARE FINANCING ADMIN ...	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF ASST'T SECY FOR EDUC ...	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF ASST'T SECY FOR HLTH ...	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF CHILD DEVELOPMENT ...	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF HUMAN DEVELOPMENT SVCS .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF INTERNATIONAL HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOCIAL & REHABILITATION SVC ...	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOCIAL SECURITY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 36B. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
DEPT OF HLTH & HUMAN SVCS, TOTAL	3,780.2	3,927.1	3,940.7	4,352.5	4,830.7	5,451.0	5,657.6	6,606.3	7,158.0	7,888.0	8,375.9
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	233.5	239.4	248.1	302.2	337.2	377.6	396.1	475.5	554.8	679.0	763.7
CENTERS FOR DISEASE CONTROL	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2	88.7	101.7	105.0
FOOD & DRUG ADMINISTRATION	75.4	71.4	73.0	74.2	77.8	82.1	79.4	85.0	91.0	99.0	108.0
HEALTH CARE FINANCING ADMIN	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3	28.2	50.5	37.0
HEALTH RESOURCES ADMIN	5.1	5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH RESOURCES & SVC'S ADMIN	N/A	N/A	10.1	13.3	18.5	19.7	12.3	9.3	10.0	10.0	10.3
HEALTH SERVICES ADMINISTRATION	26.7	20.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HUMAN DEVELOPMENT SERVICES	49.3	73.7	27.2	23.4	18.3	24.3	54.6	53.0	54.0	104.7	105.4
NATIONAL INSTITUTES OF HEALTH	3,181.8	3,333.2	3,433.1	3,789.2	4,257.4	4,827.7	5,005.1	5,850.9	6,290.9	6,791.7	7,177.2
OFF OF ASST'T SECY FOR HLTH	29.9	33.1	16.1	16.6	18.1	18.6	17.3	21.2	21.0	27.7	47.8
OFFICE OF THE SECRETARY	24.0	19.5	13.4	14.4	10.4	9.6	6.1	8.2	4.7	7.9	5.0
SOCIAL SECURITY ADMINISTRATION	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.7	16.6
DEPT OF HOUSING & URBAN DEV	56.0	48.1	28.9	32.1	18.2	18.5	15.3	16.3	18.4	18.2	21.8
DEPT OF THE INTERIOR, TOTAL	411.3	427.1	381.1	382.5	410.9	391.7	385.2	403.8	416.8	432.3	387.6
BONNEVILLE POWER ADMIN 7/	N/A	14.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LAND MANAGEMENT	1.7	1.9	5.3	3.9	3.8	4.4	3.4	3.7	3.7	3.7	3.0
BUREAU OF MINES	113.4	96.7	94.7	88.5	108.8	89.9	84.4	88.8	91.3	102.3	72.3
BUREAU OF RECLAMATION	14.1	14.3	10.1	10.0	10.4	13.2	10.2	10.7	4.4	3.9	4.5
FED WATER POLLUTION CONTROL ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GEOLOGICAL SURVEY 8/	146.3	169.8	152.6	157.0	208.9	214.9	218.6	226.8	236.1	240.0	231.8
HERITAGE CONSERVATION & RECREATION SVC	-	-	-	-	-	-	-	-	-	-	-
MINERAL MANAGEMENT SERVICE	N/A	N/A	-	1.5	1.5	1.4	1.1	1.0	1.2	1.2	1.2
NATIONAL PARK SERVICE	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.2	19.5
OFFICE OF COAL RESEARCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	2.2	1.5	.5	7.4	.1	1.9	1.0	-	.4	.4	.5
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7.5	5.8	1.5	1.5	.8	2.0	2.3	1.0	1.0	1.0	1.6
OFFICE OF WATER RSCH & TECH	29.3	21.1	11.4	2.2	3.6	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	88.6	91.5	93.9	96.7	59.1	49.0	47.0	53.3	59.2	60.6	53.2
DEPARTMENT OF JUSTICE, TOTAL	41.5	26.5	26.7	31.4	24.5	36.0	36.5	42.4	43.1	40.2	34.7
DRUG ENFORCEMENT ADMIN	2.7	1.3	3.2	2.5	1.9	1.6	2.5	2.2	2.5	1.9	1.9
FED BUREAU OF INVESTIGATION	1.4	.7	2.7	2.5	1.0	9.5	7.2	8.0	12.7	6.6	6.7
FEDERAL PRISON SYSTEM	2.1	2.5	1.7	1.7	1.6	1.5	3.0	7.1	6.0	6.1	4.2
IMMIGRATION & NATURALIZATION SVC	.3	.1	.6	.6	.6	.4	.4	.4	.3	.4	.4
OFFICE OF JUSTICE PROGRAMS	33.2	21.0	18.0	23.8	19.5	22.7	23.2	24.6	21.5	25.1	21.5
OFFICE OF LEGAL POLICY	1.8	.8	.4	.3	-	.3	.2	.1	-	-	-
DEPARTMENT OF LABOR, TOTAL	138.1	62.2	25.4	19.9	16.3	13.3	10.4	21.6	35.6	32.5	36.0
BUREAU OF APPRENTICESHIP & TRAINING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LABOR STATISTICS	.9	.3	.3	.7	.5	.6	.6	6.5	7.0	7.2	8.2
EMPLOYMENT STANDARDS ADMIN	4.9	3.2	1.4	1.4	.9	.0	-	1.0	.1	.2	.2
EMPLOYMENT & TRAINING ADMIN	121.7	52.4	16.1	9.0	6.1	3.5	3.5	5.7	14.9	12.8	17.1
LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS 9/	N/A	N/A	N/A	N/A	.3	.3	.2	.3	.4	.4	.4
LABOR-MANAGEMENT SVCS ADMIN	2.8	1.8	.7	.9	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HLTH ADMINISTRATION	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.4	4.4
OFFICE OF PENSION & WELFARE BENEFIT PROGRAMS	N/A	N/A	N/A	N/A	1.2	1.6	.3	1.0	2.7	1.3	2.4
OFFICE OF THE SECRETARY	1.4	1.1	.9	1.5	1.9	2.6	2.1	2.7	6.1	5.9	3.2
PENSION BENEFIT GUARANTEE CORPORATION	N/A	.5	1.1	1.1	.3	.2	.1	.3	.3	.3	.2
WAGE AND HOUR DIVISION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POST OFFICE DEPARTMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF STATE, TOTAL	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.1	3.2
AGENCY FOR INTERNAT'L DEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF INTELLIGENCE & RSCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENTAL FUNDS	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.1	3.2
PEACE CORPS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF TRANSPORTATION, TOTAL	361.2	415.5	310.1	347.7	448.3	428.9	385.5	324.3	304.0	335.0	330.1
COAST GUARD	18.0	26.3	20.0	19.6	19.5	19.0	16.9	17.0	21.1	18.5	18.7
FEDERAL AVIATION ADMIN	103.1	120.0	94.3	126.2	266.2	286.3	260.6	167.3	160.5	179.6	181.3
FEDERAL HIGHWAY ADMINISTRATION	51.1	51.2	40.3	50.4	46.4	49.0	45.5	76.0	73.5	82.0	75.4
FEDERAL RAILROAD ADMIN	46.2	36.6	18.2	16.5	19.2	15.0	15.4	11.2	10.0	11.5	8.5
MARITIME ADMINISTRATION	N/A	14.2	11.1	15.0	9.9	13.9	9.4	5.8	.5	.3	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMINISTRATION	63.6	65.9	55.4	52.0	56.9	28.1	22.4	27.9	28.3	33.6	34.4
OFFICE OF THE SECRETARY	10.8	10.1	3.3	4.9	4.9	4.8	5.1	4.5	5.7	5.7	8.1
RSCH & SPECIAL PROGRAMS ADMIN	14.0	13.1	6.1	6.2	5.2	2.7	2.0	2.1	2.1	1.7	1.7
URBAN MASS TRANS ADMIN	54.4	78.2	61.4	57.0	20.1	10.2	8.2	12.6	2.3	2.1	2.0

CONTINUED ON NEXT PAGE

75 BEST COPY AVAILABLE

TABLE 3-8. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
DEPT OF THE TREASURY, TOTAL	12.0	11.3	13.3	15.6	13.9	24.3	24.0	26.9	26.1	29.8	31.1
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1.6	.3	-	-	-	-	-	-	-	-	-
BUREAU OF ENGRAVING & PRINTING	2.3	2.7	4.8	3.9	3.6	5.0	4.2	4.5	2.0	4.4	4.8
INTERNAL REVENUE SERVICE	4.0	4.2	5.4	8.0	8.2	15.9	14.2	14.6	14.4	14.4	17.1
OFFICE OF PROTECTIVE RESEARCH	.4	.6	-	.3	.2	.6	.4	.5	.4	.7	.7
UNITED STATES CUSTOMS SERVICE	3.8	3.5	3.1	3.3	1.8	2.2	4.8	7.0	9.2	7.7	7.8
UNITED STATES MINT	-	-	-	-	-	.6	.3	.2	.1	2.5	.7
DEPARTMENT OF VETERANS AFFAIRS	133.4	144.4	137.3	161.4	190.3	226.6	186.2	209.5	215.3	235.6	203.4
OTHER AGENCIES											
ACTION	-	-	-	-	-	-	-	-	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.4	1.4
AGENCY FOR INTERNATIONAL DEV 10/	149.3	134.2	199.9	227.3	237.2	220.4	251.2	217.5	204.4	140.6	169.5
APPALACHIAN REGIONAL COMMISSION	.8	.4	.4	.2	.5	.2	.2	.1	.2	.4	-
ATOMIC ENERGY COMMISSION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CIVIL SERVICE COMMISSION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COMMUNITY SERVICES ADMIN	30.3	18.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONSUMER PRODUCT SAFETY COMM	3.5	.5	.2	.5	1.3	2.4	2.0	2.2	1.1	1.4	.6
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	345.0	325.7	335.1	240.7	261.2	320.4	317.3	348.2	347.4	385.9	420.7
FEDERAL COMMUNICATIONS COMM	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0	1.2	1.2	1.3
FED EMERGENCY MANAGEMENT AGENCY	11.8	11.6	9.2	3.3	11.5	4.1	N/A	N/A	N/A	N/A	N/A
FEDERAL ENERGY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FEDERAL HOME LOAN BANK BOARD	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4	3.4	4.0	4.2
FEDERAL TRADE COMMISSION	3.0	1.1	1.2	1.4	1.6	1.7	1.8	.5	.4	.4	.5
GENERAL SERVICES ADMIN 11/	.2	.6	1.0	.5	2.4	.4	1.2	1.6	2.3	1.7	.8
INTERNATIONAL TRADE COMMISSION	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.0	9.4
INTERSTATE COMMERCE COMMISSION	.1	-	-	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	6.9	4.9	5.7	7.4	7.5	7.1	6.6	6.5	7.1	7.5	9.2
NAT'L AERONAUTICS & SPACE ADMIN	3,234.1	3,593.2	3,077.9	2,661.6	2,821.9	3,327.2	3,419.8	3,787.1	4,330.4	5,688.4	6,870.4
NATIONAL ARCHIVES	N/A	N/A	N/A	N/A	N/A	.5	1.0	1.1	.7	.7	.7
NATIONAL SCIENCE FOUNDATION	881.8	961.6	975.3	1,062.0	1,202.8	1,345.6	1,353.3	1,470.5	1,532.8	1,663.6	1,881.0
NUCLEAR REGULATORY COMMISSION	182.7	219.7	220.3	207.3	190.7	150.0	123.8	122.5	108.5	115.9	130.0
OFFICE OF ECONOMIC OPPORTUNITY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EMERGENCY PREPAREDNESS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF PERSONNEL MANAGEMENT	6.8	8.4	-	-	-	-	-	-	-	-	-
OFFICE OF SCIENCE AND TECHNOLOGY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF TELECOMM POLICY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POSTAL SERVICE	-	-	-	-	-	-	-	-	-	-	-
SMALL BUSINESS ADMINISTRATION	-	-	-	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	41.0	44.9	52.4	56.0	63.6	71.1	63.3	71.5	75.1	79.0	87.1
SPEC ACTION OFF FOR DRUG ABUSE PREVENTION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TENNESSEE VALLEY AUTHORITY	80.1	68.9	85.0	63.0	68.1	79.5	77.5	77.9	87.3	58.6	50.0
US ARMS CONTROL & DISARMAMENT AGENCY	3.8	2.4	1.9	1.0	1.3	1.1	.9	3.6	3.4	2.3	.2
US INFORMATION AGENCY 12/	.1	1.5	.1	.0	1.4	.1	2.0	3.5	.4	.2	-

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1969-76.

2/ FISCAL YEAR 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO THE AGRICULTURAL MARKETING SERVICE.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FISCAL YEAR 1980.

7/ IN FISCAL YEAR 1982 THE BONNEVILLE POWER ADMINISTRATION BECAME PART OF THE DEPARTMENT OF ENERGY.

8/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

9/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

10/ INCLUDES PROGRAMS OF THE INTERNATIONAL DEVELOPMENT COOPERATION AGENCY FOR FISCAL YEARS 1979-81.

11/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS AS COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

12/ INCLUDES THE FORMER INTERNATIONAL COMMUNICATION AGENCY FOR FISCAL YEARS 1977-81.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH OR IN THAT ORGANIZATION IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 37. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT BY CHARACTER OF WORK, AND R&D PLANT: FISCAL YEARS 1969-90

(MILLIONS OF DOLLARS)

FISCAL YEARS	TOTAL	RESEARCH		DEVELOPMENT	R&D PLANT
		BASIC	APPLIED		
1969	16,309.9	1,944.8	2,700.1	10,996.0	669.0
1970	15,863.4	1,925.9	2,974.9	10,438.1	524.4
1971	16,153.8	1,980.1	3,143.0	10,419.3	611.2
1972	17,098.0	2,186.9	3,360.8	10,948.2	602.1
1973	17,574.5	2,232.0	3,349.4	11,218.7	774.3
1974	18,176.5	2,387.7	3,787.6	11,234.9	766.3
1975	19,859.5	2,588.4	4,141.3	12,309.1	820.7
1976	21,616.4	2,767.5	4,851.9	13,160.3	836.7
1977	24,817.6	3,258.6	5,255.5	14,936.3	1,367.2
1978	27,140.8	3,698.6	5,908.2	16,238.4	1,295.7
1979	29,620.6	4,192.7	6,342.3	17,610.1	1,475.5
1980	31,386.1	4,674.2	6,923.2	18,233.1	1,555.7
1981	34,589.6	5,041.3	7,171.5	20,891.1	1,485.7
1982	37,822.4	5,481.6	7,540.6	23,410.4	1,389.8
1983	40,009.6	6,260.1	7,993.4	24,458.0	1,298.1
1984	44,012.1	7,067.4	7,911.4	27,246.1	1,787.3
1985	50,180.4	7,818.7	8,314.7	32,226.1	1,820.8
1986	52,951.2	8,153.1	8,349.1	34,910.2	1,538.8
1987	57,099.0	8,942.4	8,997.9	37,312.7	1,846.0
1988	58,992.2	9,473.6	9,176.4	38,285.1	2,057.1
1989 (ESTIMATED)	64,330.8	10,464.4	9,951.0	41,486.6	2,428.7
1990 (ESTIMATED)	68,523.9	11,200.6	9,890.8	44,992.6	2,439.9

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 38A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

SELECTED AGENCY	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL, ALL AGENCIES	1,944.8	1,925.9	1,980.1	2,186.9	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	106.6	115.7	118.4	137.3	142.7	145.6	154.2	171.4	204.5	242.7	256.4
AGRICULTURAL COOPERATIVE SVC 1/	.2	.2	.2	-	-	-	-	-	N/A	N/A	N/A
AGRICULTURAL RESEARCH SVC 2/	66.7	73.3	72.1	82.9	84.6	85.5	38.4	43.1	125.6	142.4	148.2
ANIMAL & PLANT HEALTH INSPECTION SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COOPERATIVE STATE RSCH SVC 3/	22.2	23.2	25.8	31.4	34.0	34.0	38.4	43.1	48.4	65.6	70.5
ECON, STAT & COOP SVC 4/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.8	3.9	6.4
ECONOMIC RESEARCH SERVICE	4.0	4.3	4.7	4.6	4.8	5.4	3.2	3.6	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC 5/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	13.7	14.5	15.7	18.3	19.3	20.7	21.1	22.6	26.7	30.8	31.4
OFF OF INTERNAT'L COOPERATION & DEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
OFFICE OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
NAT'L AGRICULTURAL STAT SVC	.1	.1	.1	.1	.1	.0	.3	.4	N/A	N/A	N/A
DEPARTMENT OF COMMERCE, TOTAL	27.3	18.2	15.7	7.9	6.6	7.7	8.1	11.0	12.3	11.8	11.9
BUREAU OF THE CENSUS	.4	.3	.3	.3	.2	.2	.2	.2	.2	.5	.6
ECONOMIC DEVELOPMENT ADMIN	-	-	-	-	-	-	-	1.7	1.0	2.7	.5
ENVIRONMENTAL SCIENCE SVCS ADMINISTRATION	10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MARITIME ADMINISTRATION	-	-	.4	2.7	1.8	1.2	1.7	1.2	1.2	2.7	2.0
MINORITY BUSINESS DEV AGENCY	3.1	3.5	-	-	-	-	-	-	.2	-	-
NAT'L INST OF STANDARDS & TECH	13.4	14.4	14.5	4.9	4.5	6.2	5.4	5.8	6.9	5.9	8.8
NAT'L FIRE PREVENTION & CONTROL ADMINISTRATION	N/A	N/A	N/A	-	-	-	.7	2.1	2.7	N/A	N/A
NAT'L TELECOMM & INFO ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.1	-	-
OFFICE OF TELECOMMUNICATIONS	N/A	-	.5	-	.2	.2	.1	.1	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	276.5	317.0	322.1	328.8	306.7	302.9	300.1	326.9	373.3	410.4	471.5
DEPARTMENT OF THE ARMY	58.8	76.3	78.5	82.5	76.9	76.3	71.7	81.4	99.0	104.1	115.0
DEPARTMENT OF THE NAVY	92.5	117.8	114.6	124.6	112.7	114.2	118.7	129.7	153.8	172.1	192.1
DEPARTMENT OF THE AIR FORCE	90.9	84.6	84.5	86.4	79.9	77.5	78.9	83.9	84.8	95.1	105.0
DEFENSE AGENCIES	34.3	38.3	44.5	35.4	37.2	34.9	30.7	31.9	35.6	39.1	59.3
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.6
DEPARTMENT OF ENERGY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	389.5	440.5	463.0
DEPT OF HLTH, EDUCATION, & WELFARE, TOTAL	536.5	513.0	574.5	665.4	667.3	850.1	903.7	986.2	1,119.5	1,292.3	N/A
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	52.6	53.3	66.2	52.6	62.7	79.9	N/A
ENVIRONMENTAL HEALTH SERVICE	17.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	-	7.4	7.4	-	3.1	-	-	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	1.5	.6	1.2	.3	2.0	.6	N/A
HLTH SVCS & MENTAL HLTH ADMIN	56.5	60.3	63.6	75.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	-	11.4	4.8	1.9	5.1	11.9	18.3	N/A
NATIONAL INSTITUTES OF HEALTH	454.4	444.4	503.7	585.7	593.0	775.3	828.5	920.3	1,032.8	1,181.1	N/A
OFF OF ASST'T SECY FOR HLTH	-	-	-	-	-	-	-	-	4.0	5.1	N/A
OFFICE OF EDUCATION	7.5	7.8	6.8	3.7	.1	.2	-	-	-	-	N/A
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	-	-	-	-	2.2	2.2	N/A
OFFICE OF INTERNATIONAL HEALTH	-	-	-	-	.7	2.7	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	N/A	N/A	-	-	-	4.2	4.1	4.9	4.0	5.1	N/A
SOCIAL SECURITY ADMINISTRATION	.3	.4	.4	.6	.8	1.6	1.8	-	-	-	N/A

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 38A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
DEPT OF HLTH & HUMAN SVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,576.0
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94.6
HEALTH RESOURCES & SVC'S ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0
HUMAN DEVELOPMENT SERVICES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
NATIONAL INSTITUTES OF HEALTH .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,463.7
OFF OF ASST'T SECY FOR HLTH ...	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.6
OFFICE OF THE SECRETARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1
DEPT OF THE INTERIOR, TOTAL	54.5	39.5	41.7	43.1	48.7	48.7	54.9	54.3	63.6	65.9	72.5
BONNEVILLE POWER ADMIN 6/.....	-	-	-	-	-	-	-	-	N/A	N/A	N/A
BUREAU OF LAND MANAGEMENT	.0	.0	-	-	-	-	-	-	-	-	-
BUREAU OF MINES	4.1	6.2	6.5	7.8	6.9	5.6	1.9	.8	4.0	8.6	13.7
BUREAU OF RECLAMATION	.1	.1	.1	.1	.1	.1	.0	.1	.1	.2	.1
FED WATER POLLUTION CONTROL ADMINISTRATION	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GEOLOGICAL SURVEY 7/.....	28.5	20.2	20.6	21.5	27.7	27.2	38.6	39.5	40.3	46.3	49.0
NATIONAL PARK SERVICE	2.6	-	.7	.9	.8	1.0	.6	.6	-	-	-
OFFICE OF COAL RESEARCH	-	-	-	-	.1	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	-	-	.7	-	-	1.0	3.2	1.7	1.4
OFFICE OF WATER RSCH & TECH ...	3.5	4.5	4.7	4.2	3.2	3.7	3.9	3.6	2.9	4.6	4.6
US FISH & WILDLIFE SERVICE	15.6	8.5	9.1	8.6	9.3	11.0	9.9	8.8	13.1	4.5	3.7
DEPARTMENT OF JUSTICE, TOTAL	.0	-	-	-	2.1	2.1	9.5	4.5	5.1	14.7	7.9
FEDERAL PRISON SYSTEM	.0	-	-	-	-	-	-	-	-	-	-
OFFICE OF JUSTICE PROGRAMS	-	-	-	-	2.1	2.1	9.5	4.5	5.1	14.7	7.9
DEPARTMENT OF LABOR, TOTAL	1.9	2.1	2.5	1.1	1.3	1.2	.9	1.0	.7	3.7	2.3
BUREAU OF LABOR STATISTICS	1.3	1.4	1.4	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN ...	.4	.3	.6	.4	.4	.6	.5	.6	.6	3.5	1.8
LABOR-MANAGEMENT SVCS ADMIN ...	.1	.3	.5	.7	.9	.6	.3	.3	.1	.2	.5
OFFICE OF THE SECRETARY	N/A	N/A	-	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	-	1.5	-	-	-	.0
AGENCY FOR INTERNAT'L DEV	-	-	-	-	-	-	1.5	-	-	-	N/A
DEPARTMENTAL FUNDS	-	-	-	-	-	-	-	-	-	-	.0
DEPT OF TRANSPORTATION, TOTAL ...	.2	.4	.3	.5	.2	.3	.1	-	-	-	-
COAST GUARD	.0	.0	.0	.0	.1	.2	.1	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	.1	.3	.1	.2	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMIN	-	-	.0	-	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	.2	.4	.0	.1	-	-	-	-	-
RSCH & SPECIAL PROGRAMS ADMIN .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 38A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
DEPT OF THE TREASURY, TOTAL	-	-	-	-	-	-	-	-	-	-	0.2
BUREAU OF ENGRAVING & PRINTING	-	-	-	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	-	-	-	-	-	-	-	-	-	-	.2
OFFICE OF PROTECTIVE RESEARCH .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF VETERANS AFFAIRS ..	6.4	5.3	3.1	3.2	3.2	3.6	3.9	8.9	9.1	8.9	9.5
OTHER AGENCIES											
ACTION	N/A	N/A	-	-	-	0.1	0.1	0.0	0.1	-	-
AGENCY FOR INTERNATIONAL DEV 8/..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
ATOMIC ENERGY COMMISSION	285.1	286.7	276.9	268.3	275.2	N/A	N/A	N/A	N/A	N/A	N/A
CIVIL SERVICE COMMISSION	.0	.1	.1	.1	.2	.2	.6	.3	.4	N/A	N/A
CONSUMER PRODUCT SAFETY COMM	N/A	N/A	N/A	-	-	-	-	-	-	-	-
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	N/A	N/A	269.5	312.8	345.8	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	N/A	5.5	6.1	6.1	9.0	9.5	17.4	13.7	8.3	6.0	10.1
FED EMERGENCY MANAGEMENT AGENCY .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.8	3.0
FEDERAL TRADE COMMISSION	-	-	-	-	-	-	-	.3	.4	.5	.4
GENERAL SERVICES ADMINISTRATION 9/.....	-	-	-	-	.0	.5	.3	.1	.1	1.8	.0
LIBRARY OF CONGRESS	-	-	-	-	-	-	-	.2	.1	.1	.1
NAT'L AERONAUTICS & SPACE ADMIN .	379.5	357.5	327.3	331.6	350.3	305.9	309.3	293.2	413.8	479.7	512.8
NATIONAL ARCHIVES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL SCIENCE FOUNDATION	247.6	245.0	272.6	367.7	392.4	415.2	486.0	523.6	624.9	678.0	733.3
OFFICE OF ECONOMIC OPPORTUNITY ..	7.4	1.6	3.2	4.2	.9	-	-	N/A	N/A	N/A	N/A
OFFICE OF SCIENCE AND TECHNOLOGY	.4	.4	.4	.4	-	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF TELECOMM POLICY	N/A	N/A	-	-	-	-	.4	.4	-	-	N/A
SMITHSONIAN INSTITUTION	14.8	18.2	15.1	21.3	24.0	24.7	24.8	25.7	29.7	34.9	36.9
SPEC ACTION OFF FOR DRUG ABUSE PREVENTION	N/A	N/A	N/A	-	1.0	-	-	-	N/A	N/A	N/A
TENNESSEE VALLEY AUTHORITY	-	-	-	-	-	-	-	-	3.5	3.8	4.1
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	-	-	-	-	-	-
US INFORMATION AGENCY 10/.....	-	-	-	-	-	-	-	-	-	-	-

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1969-79.

2/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

3/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FISCAL YEAR 1980.

6/ IN FISCAL YEAR 1982 THE BONNEVILLE POWER ADMINISTRATION BECAME PART OF THE DEPARTMENT OF ENERGY.

7/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

8/ INCLUDES PROGRAMS OF THE INTERNATIONAL DEVELOPMENT COOPERATION AGENCY FOR FISCAL YEARS 1979-81.

9/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

10/ INCLUDES THE FORMER INTERNATIONAL COMMUNICATION AGENCY FOR FISCAL YEARS 1977-81.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH OR IN THAT ORGANIZATION IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 38B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

SELECTED AGENCY	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
TOTAL, ALL AGENCIES	4,674.2	5,041.3	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,464.4	11,200.6
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	275.7	314.1	330.8	362.0	392.6	445.4	432.9	445.5	480.6	491.4	511.9
AGRICULTURAL COOPERATIVE SVC 1/	-	-	-	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SVC 2/	157.8	186.4	192.9	215.3	240.6	250.2	247.7	253.4	271.1	283.5	295.0
ANIMAL & PLANT HEALTH INSPECTION SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-
COOPERATIVE STATE RSCH SVC 3/	75.2	83.9	91.3	98.8	99.6	141.5	131.7	132.8	145.8	145.1	152.8
ECON, STAT & COOP SVC 4/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SERVICE	N/A	3.6	3.9	3.9	4.4	4.6	4.5	6.3	6.7	6.9	7.2
ECONOMICS & STATISTICS SVC 5/	6.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	33.7	38.1	38.7	38.8	41.2	44.1	42.2	49.4	51.6	52.4	54.1
OFF OF INTERNAT'L COOPERATION & DEV	2.3	1.7	1.1	2.3	3.6	1.5	3.7	1.9	3.6	1.7	1.3
OFFICE OF TRANSPORTATION	-	.5	.5	.5	.6	.6	.5	.5	.5	.5	.3
NAT'L AGRICULTURAL STAT SVC	N/A	-	2.3	2.5	2.7	2.8	2.6	1.1	1.2	1.2	1.2
DEPARTMENT OF COMMERCE, TOTAL	15.9	16.2	16.9	19.2	20.6	23.2	26.5	25.8	30.9	32.0	31.3
BUREAU OF THE CENSUS	.5	.4	.3	.3	.4	.4	.5	.7	1.3	.8	.8
ECONOMIC DEVELOPMENT ADMIN	.3	.2	-	.5	-	-	-	-	-	-	-
ENVIRONMENTAL SCIENCE SVCS ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MARITIME ADMINISTRATION	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MINORITY BUSINESS DEV AGENCY	-	-	-	-	-	-	-	-	-	-	-
NAT'L INST OF STANDARDS & TECH	12.8	15.6	16.5	18.4	20.2	22.1	25.7	25.1	26.3	28.0	26.7
NAT'L FIRE PREVENTION & CONTROL ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L OCEANIC & ATMOSPHERIC ADMINISTRATION	-	-	-	-	-	-	-	-	3.2	3.3	3.8
NAT'L TELECOMM & INFO ADMIN	-	-	-	-	-	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	.3	-	.0	.0	-	.8	.3	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	540.3	604.3	686.7	785.6	847.9	861.4	923.9	907.6	876.9	908.3	964.2
DEPARTMENT OF THE ARMY	132.2	148.1	187.7	208.3	222.1	240.8	248.5	217.0	165.7	174.9	207.4
DEPARTMENT OF THE NAVY	214.9	238.0	280.3	305.4	315.8	343.1	337.3	354.3	341.8	344.0	390.3
DEPARTMENT OF THE AIR FORCE	108.2	125.8	145.8	164.2	192.4	198.3	216.5	221.6	196.4	188.3	215.8
DEFENSE AGENCIES	85.1	92.4	72.9	107.7	117.6	79.2	121.7	114.8	173.0	201.2	150.7
DEPARTMENT OF EDUCATION, TOTAL	17.6	20.6	14.2	14.2	12.2	14.6	4.5	3.1	4.4	4.4	4.4
DEPARTMENT OF ENERGY	523.1	586.3	642.2	767.7	830.4	942.6	959.7	1,068.5	1,184.8	1,313.9	1,394.2
DEPT OF HLTH, EDUCATION, & WELFARE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL HEALTH SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF ASST'T SECY FOR HLTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF HUMAN DEVELOPMENT SVCS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF INTERNATIONAL HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOCIAL SECURITY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 38B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
DEPT OF HLTH & HUMAN SVCS, TOTAL	1,762.7	1,900.4	2,144.7	2,475.4	2,814.5	3,232.5	3,338.8	3,827.9	4,081.4	4,411.2	4,754.0
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	104.7	116.3	117.3	145.0	170.8	196.8	203.4	232.2	265.8	320.9	359.7
HEALTH RESOURCES & SVC'S ADMIN	N/A	N/A	.6	.8	.8	.9	1.0	1.3	1.1	.9	1.0
HEALTH SERVICES ADMINISTRATION	2.0	3.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HUMAN DEVELOPMENT SERVICES	-	.4	.4	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,642.3	1,766.8	2,020.7	2,313.0	2,624.8	3,018.0	3,118.6	3,575.5	3,795.1	4,063.5	4,346.9
OFF OF ASST'T SECY FOR HLTH	11.6	12.4	5.7	16.6	18.1	16.9	15.8	18.9	19.4	25.9	46.4
OFFICE OF THE SECRETARY	2.0	.6	-	-	-	-	-	-	-	-	-
DEPT OF THE INTERIOR, TOTAL	71.6	80.7	76.5	103.0	125.9	138.3	133.0	134.9	126.5	147.3	128.5
BONNEVILLE POWER ADMIN 6/	N/A	.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	-	-	-	-	-	-
BUREAU OF MINES	11.5	13.6	15.9	23.5	40.5	49.9	44.9	45.6	32.1	48.1	32.0
BUREAU OF RECLAMATION	.2	.1	.1	.1	.1	.3	.1	.1	.1	.1	.1
FED WATER POLLUTION CONTROL ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GEOLOGICAL SURVEY 7/	47.3	53.5	52.6	64.7	78.9	80.5	83.4	84.9	89.5	94.3	92.2
NATIONAL PARK SERVICE	-	-	-	-	-	-	-	-	-	-	-
OFFICE OF COAL RESEARCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	2.2	1.5	.5	7.4	.1	1.9	1.0	-	-	-	-
OFFICE OF WATER RSCH & TECH	6.6	7.6	3.3	.5	.4	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	3.8	3.9	4.1	6.9	5.9	5.7	3.6	4.3	4.8	4.8	4.2
DEPARTMENT OF JUSTICE, TOTAL	9.5	4.6	3.1	3.6	4.7	4.2	5.3	8.1	7.6	9.7	5.6
FEDERAL PRISON SYSTEM	-	-	-	-	-	-	-	-	-	-	-
OFFICE OF JUSTICE PROGRAMS	9.5	4.6	3.1	3.6	4.7	4.2	5.3	8.1	7.6	9.7	5.6
DEPARTMENT OF LABOR, TOTAL	3.9	3.7	6.5	5.3	5.0	3.3	.9	1.4	.4	.3	.3
BUREAU OF LABOR STATISTICS	-	-	-	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	3.9	3.7	6.5	5.3	5.0	3.3	.9	1.4	.4	.3	.3
LABOR-MANAGEMENT SVCS ADMIN	-	-	-	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	-	-	2.6	3.1	3.1	3.1
AGENCY FOR INTERNAT'L DEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENTAL FUNDS	-	-	-	-	-	-	-	2.6	3.1	3.1	3.1
DEPT OF TRANSPORTATION, TOTAL	-	1.2	1.0	.9	3.5	1.1	.6	.2	-	-	-
COAST GUARD	-	.3	-	.4	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMIN	-	-	-	-	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	N/A	.7	1.0	.5	3.5	1.1	.6	.2	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	-	-	-	-	-	-	-
RSCH & SPECIAL PROGRAMS ADMIN	-	.3	-	-	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

82 BEST COPY AVAILABLE

TABLE 3BB. FEDERAL OBLIGATIONS FOR BASIC RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
DEPT OF THE TREASURY, TOTAL	1.7	2.3	2.2	3.5	4.0	4.8	5.1	4.7	4.8	3.4	3.9
BUREAU OF ENGRAVING & PRINTING	-	-	-	.6	.8	.3	.4	.1	.1	.5	.4
INTERNAL REVENUE SERVICE	1.7	2.3	2.2	2.9	3.2	4.4	4.5	4.4	4.7	2.9	3.4
OFFICE OF PROTECTIVE RESEARCH .	-	-	-	-	-	-	.2	.2	.1	.0	.1
DEPARTMENT OF VETERANS AFFAIRS ..	14.3	15.0	12.9	14.1	15.8	15.4	14.8	17.2	17.3	19.4	15.8
OTHER AGENCIES											
ACTION	-	-	-	-	-	-	-	-	-	-	-
AGENCY FOR INTERNATIONAL DEV 8/..	-	-	-	4.1	3.0	1.7	4.3	2.8	3.0	1.8	.5
ATOMIC ENERGY COMMISSION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CIVIL SERVICE COMMISSION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONSUMER PRODUCT SAFETY COMM	-	.1	-	-	-	-	-	-	-	-	-
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	13.6	10.5	32.7	22.2	29.6	38.6	38.5	31.1	27.2	44.1	76.2
FED EMERGENCY MANAGEMENT AGENCY .	2.6	2.6	1.4	-	-	-	N/A	N/A	N/A	N/A	N/A
FEDERAL TRADE COMMISSION	1.5	.9	1.0	1.2	1.3	1.5	1.6	-	-	-	-
GENERAL SERVICES ADMINISTRATION 9/.....	-	-	-	-	.1	.1	-	-	-	-	.2
LIBRARY OF CONGRESS	.1	.2	.1	.3	.6	.6	.4	.4	.4	.4	.6
NAT'L AERONAUTICS & SPACE ADMIN .	559.1	531.1	535.7	617.0	754.5	750.9	916.7	1,013.7	1,112.7	1,438.4	1,462.1
NATIONAL ARCHIVES	N/A	N/A	N/A	N/A	N/A	.1	-	.5	.2	.0	.3
NATIONAL SCIENCE FOUNDATION	815.2	896.6	916.1	999.1	1,132.3	1,261.8	1,275.2	1,371.2	1,433.2	1,553.2	1,754.1
OFFICE OF ECONOMIC OPPORTUNITY ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF SCIENCE AND TECHNOLOGY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF TELECOMM POLICY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SMITHSONIAN INSTITUTION	41.0	44.9	52.4	56.0	63.6	71.1	63.3	71.5	75.1	79.0	87.1
SPEC ACTION OFF FOR DRUG ABUSE PREVENTION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TENNESSEE VALLEY AUTHORITY	4.6	4.8	4.6	5.6	5.1	5.5	7.3	3.9	3.2	3.1	2.2
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	-	-	-	-	-	-
US INFORMATION AGENCY 10/.....	-	.1	-	-	-	-	-	-	-	-	-

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1969-79.

2/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

3/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FISCAL YEAR 1980.

6/ IN FISCAL YEAR 1982 THE BONNEVILLE POWER ADMINISTRATION BECAME PART OF THE DEPARTMENT OF ENERGY.

7/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

8/ INCLUDES PROGRAMS OF THE INTERNATIONAL DEVELOPMENT COOPERATION AGENCY FOR FISCAL YEARS 1979-81.

9/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

10/ INCLUDES THE FORMER INTERNATIONAL COMMUNICATION AGENCY FOR FISCAL YEARS 1977-81.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH OR IN THAT ORGANIZATION IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 39A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

SELECTED AGENCY	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL, ALL AGENCIES	2,700.1	2,974.9	3,143.0	3,360.8	3,349.4	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	144.7	156.2	173.7	199.9	211.4	219.5	247.8	270.9	319.6	351.8	375.5
AGRICULTURAL COOPERATIVE SVC 1/	.6	.7	.8	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A
AGRICULTURAL MARKETING SVC 2/	N/A	N/A	N/A	-	-	-	-	-	-	-	.4
AGRICULTURAL RESEARCH SVC 3/	73.5	79.1	89.8	101.0	105.1	107.9	112.9	125.9	155.4	161.3	172.7
ANIMAL & PLANT HEALTH INSPECTION SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COOPERATIVE STATE RSCH SVC 4/	36.1	37.9	42.0	51.2	55.4	55.4	62.7	70.3	78.9	91.9	102.1
ECON, STAT & COOP SVC 5/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25.9	28.8	29.1
ECONOMIC RESEARCH SERVICE	9.2	10.6	10.9	11.4	12.2	12.7	18.1	20.4	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FEDERAL GRAIN INSPECTION SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	24.5	27.4	29.5	34.6	36.8	41.6	52.2	51.9	59.4	69.8	71.1
HUMAN NUTRITION INFO SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL AGRICULTURAL LIBRARY	.4	.2	.4	.2	.3	.1	.0	.0	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
OFFICE OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
NAT'L AGRICULTURAL STAT SVC	.4	.4	.4	.4	.4	.4	.7	1.1	N/A	N/A	N/A
DEPARTMENT OF COMMERCE, TOTAL	28.6	76.0	98.0	135.5	123.5	121.5	136.3	144.7	163.8	181.0	207.6
BUREAU OF THE CENSUS	1.1	1.4	1.7	1.5	.4	.5	.4	2.0	1.8	1.8	1.2
ECONOMIC DEVELOPMENT ADMIN	2.8	3.8	1.7	.8	.9	.9	1.1	.4	1.5	3.2	8.0
ENVIRONMENTAL SCIENCE SVCS ADMINISTRATION	10.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MARITIME ADMINISTRATION	2.4	4.9	12.8	17.9	4.2	4.6	4.0	3.8	2.5	4.3	10.2
MINORITY BUSINESS DEV AGENCY	-	-	-	-	-	.2	.9	.4	.5	-	-
NAT'L INST OF STANDARDS & TECH	11.7	12.7	14.2	25.0	26.6	26.5	29.4	31.7	38.0	42.6	43.0
NAT'L FIRE PREVENTION & CONTROL ADMINISTRATION	N/A	N/A	N/A	-	-	-	.0	1.1	1.8	N/A	N/A
NAT'L OCEANIC & ATMOSPHERIC ADMINISTRATION	N/A	52.9	65.6	90.2	89.1	87.1	99.7	104.9	115.8	127.9	142.7
NAT'L TELECOMM & INFO ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.9	1.1	2.4
OFFICE OF TELECOMMUNICATIONS	N/A	-	1.6	-	2.0	1.5	.5	.2	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	-	-	-	-	-	-	-	-	.1
PATENT AND TRADEMARK OFFICE	.4	.3	.4	-	-	.2	.3	.2	-	-	-
US TRAVEL & TOURISM ADMIN	-	-	-	-	.4	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,135.4	1,012.9	987.1	1,175.8	1,129.4	1,131.5	1,130.9	1,200.6	1,342.6	1,413.6	1,542.6
DEPARTMENT OF THE ARMY	215.9	245.8	231.4	289.1	300.2	290.1	264.7	281.0	299.0	305.7	333.6
DEPARTMENT OF THE NAVY	202.4	238.1	239.3	281.8	273.7	287.1	287.8	308.3	343.6	354.2	375.2
DEPARTMENT OF THE AIR FORCE	425.6	299.9	237.5	255.9	261.1	264.1	276.9	298.4	341.0	353.6	387.2
DEFENSE AGENCIES	286.5	285.0	275.9	345.0	291.2	287.3	299.9	312.2	357.8	392.5	446.6
DEFENSE CIVIL PREPAREDNESS AGENCY	5.0	4.1	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	72.8
DEPARTMENT OF ENERGY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	501.8	661.7	668.9
DEPT OF HLTH, EDUCATION, & WELFARE, TOTAL	547.5	528.0	657.4	766.7	776.9	996.6	1,021.1	1,164.6	1,294.8	1,448.4	N/A
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	69.6	102.3	73.2	84.1	89.3	98.8	N/A
CENTERS FOR DISEASE CONTROL	N/A	N/A	N/A	N/A	38.3	44.9	42.6	49.6	55.3	60.1	N/A
ENVIRONMENTAL HEALTH SERVICE	23.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOOD & DRUG ADMINISTRATION	1.1	21.8	25.6	30.4	30.2	43.5	35.9	37.1	42.9	64.1	N/A
HEALTH CARE FINANCING ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.0	19.4	N/A
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	-	3.7	2.3	16.7	27.9	7.4	5.0	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	8.6	8.7	9.4	9.2	7.5	10.0	N/A
HLTH SVCS & MENTAL HLTH ADMIN	102.4	100.0	115.6	125.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	-	4.7	4.7	2.2	5.7	15.2	16.3	N/A
NATIONAL INSTITUTES OF HEALTH	343.6	336.0	409.8	513.7	539.1	714.3	775.7	847.4	935.9	1,051.5	N/A
OFF OF ASST'T SECY FOR EDUC	-	-	-	-	-	-	.6	1.0	1.0	1.3	N/A
OFF OF ASST'T SECY FOR HLTH	-	-	-	-	-	-	-	-	24.6	27.5	N/A
OFFICE OF CHILD DEVELOPMENT	-	1.0	7.9	12.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	31.6	25.3	56.0	32.3	6.6	6.3	5.3	21.4	11.9	13.3	N/A
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	10.1	17.2	7.1	34.6	46.5	42.9	N/A
OFFICE OF THE SECRETARY	N/A	N/A	-	-	-	25.6	22.2	18.8	16.0	25.1	N/A
SOCIAL & REHABILITATION SVC	38.0	31.9	32.1	39.9	48.3	8.9	9.6	18.6	N/A	N/A	N/A
SOCIAL SECURITY ADMINISTRATION	7.0	12.0	10.5	13.0	17.7	17.8	20.8	9.1	11.2	12.9	N/A

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

TABLE 39A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
DEPT OF HLTH & HUMAN SVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,439.7
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	118.9
CENTERS FOR DISEASE CONTROL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	76.3
FOOD & DRUG ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61.0
HEALTH CARE FINANCING ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.8
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.9
HEALTH RESOURCES & SVC'S ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.2
HUMAN DEVELOPMENT SERVICES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.9
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,066.4
OFF OF ASST'T SECY FOR HLTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.3
OFFICE OF THE SECRETARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.6
SOCIAL SECURITY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.3
DEPT OF HOUSING & URBAN DEV	12.2	7.1	10.5	12.7	18.4	33.8	33.5	36.9	32.7	30.5	23.8
DEPT OF THE INTERIOR, TOTAL	109.0	81.1	95.1	104.3	111.4	94.8	179.1	205.1	192.4	217.6	266.9
BONNEVILLE POWER ADMIN 7/	.5	.5	.3	.3	.3	.4	.5	.5	N/A	N/A	N/A
BUREAU OF LAND MANAGEMENT	.7	.7	.8	.8	.7	.6	.7	.7	.8	1.0	1.1
BUREAU OF MINES	25.9	27.6	32.2	32.8	34.6	24.9	51.0	72.5	48.3	48.4	65.4
BUREAU OF RECLAMATION	7.1	7.1	9.1	9.9	9.3	6.8	7.3	7.9	9.2	10.4	11.3
FED WATER POLLUTION CONTROL ADMINISTRATION	21.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GEOLOGICAL SURVEY 8/	6.8	19.6	21.3	30.1	35.1	39.0	68.0	70.8	77.2	87.4	96.1
HERITAGE CONSERVATION & RECREATION SVC	.2	.1	.2	.0	.0	.0	.0	.0	.0	-	-
MINERAL MANAGEMENT SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL PARK SERVICE	-	-	.4	.4	.7	1.5	7.7	8.7	7.5	7.7	8.9
OFFICE OF COAL RESEARCH	4.7	2.3	5.0	4.2	5.6	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	.2	.3	3.4	.4	1.3	.1	1.4	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	2.2	5.0
OFFICE OF WATER RSCH & TECH	12.6	13.5	13.9	14.6	10.2	11.2	11.6	10.4	9.4	10.8	13.2
US FISH & WILDLIFE SERVICE	29.3	9.6	11.9	10.9	11.5	9.9	31.0	33.7	38.6	49.7	65.9
DEPARTMENT OF JUSTICE, TOTAL	2.6	5.3	6.5	12.4	4.9	16.5	9.4	13.8	12.5	31.0	20.9
DRUG ENFORCEMENT ADMIN	.6	.8	1.5	1.2	1.6	1.7	.9	.5	.9	.5	.7
FEDERAL PRISON SYSTEM	.2	-	-	-	-	-	-	-	.1	.7	.5
IMMIGRATION & NATURALIZATION SVC	-	-	-	-	-	-	.0	.1	.1	.2	.1
OFFICE OF JUSTICE PROGRAMS	1.8	4.5	5.0	11.2	3.4	14.8	8.5	13.2	11.3	28.6	18.0
OFFICE OF LEGAL POLICY	-	-	-	-	-	-	-	-	-	1.1	1.6
DEPARTMENT OF LABOR, TOTAL	7.3	9.2	11.1	12.2	12.0	16.0	14.4	17.0	18.0	22.0	39.8
BUREAU OF APPRENTICESHIP & TRAINING	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LABOR STATISTICS	1.2	1.1	1.5	2.5	.8	.6	.7	.8	.9	.8	.9
EMPLOYMENT STANDARDS ADMIN	1.9	2.2	1.5	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3
EMPLOYMENT & TRAINING ADMIN	4.2	5.9	7.7	7.8	8.3	11.1	6.6	6.9	5.8	11.4	24.2
LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS 9/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LABOR-MANAGEMENT SVCS ADMIN	-	-	-	-	-	.6	.5	.4	3.2	2.6	2.7
OCCUPATIONAL SAFETY & HLTH ADMINISTRATION	N/A	N/A	.3	-	.4	.5	1.4	2.9	3.4	1.3	5.1
OFFICE OF PENSION & WELFARE BENEFIT PROGRAMS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	N/A	N/A	.2	.2	1.2	2.3	2.0	1.8	.2	2.2	1.6
PENSION BENEFIT GUARANTEE CORPORATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WAGE AND HOUR DIVISION	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POST OFFICE DEPARTMENT	2.9	4.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF STATE, TOTAL	15.9	18.9	29.0	25.7	24.6	17.8	21.0	25.1	38.3	49.1	2.6
AGENCY FOR INTERNAT'L DEV	15.0	18.6	28.6	25.2	23.9	16.8	20.2	24.0	36.2	46.6	N/A
BUREAU OF INTELLIGENCE & RSCH	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENTAL FUNDS	.1	.1	.4	.6	.8	1.1	.7	1.1	2.1	2.5	2.6
PEACE CORPS	.7	.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF TRANSPORTATION, TOTAL	57.3	82.9	96.7	97.6	77.1	61.5	53.8	31.1	51.8	66.5	67.0
COAST GUARD	3.3	4.0	4.7	5.1	5.1	6.6	4.2	2.6	2.5	2.3	10.9
FEDERAL AVIATION ADMIN	3.1	10.0	17.3	22.2	17.8	13.9	14.1	3.6	4.7	6.8	7.5
FEDERAL HIGHWAY ADMINISTRATION	32.2	28.3	23.7	20.1	1.8	3.3	3.4	1.9	5.3	4.9	4.4
FEDERAL RAILROAD ADMIN	9.7	9.6	17.9	9.3	15.4	1.6	2.7	8.6	6.6	9.2	7.5
MARITIME ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L HIGHWAY TRAFFIC SAFETY ADMINISTRATION	N/A	15.9	14.7	20.7	21.7	14.9	12.0	9.9	27.5	38.0	30.0
OFFICE OF THE SECRETARY	2.7	9.0	8.5	12.5	8.9	15.1	14.4	3.9	4.2	4.1	.6
RSCH & SPECIAL PROGRAMS ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	.1	5.0
URBAN MASS TRANS ADMIN	6.1	6.2	9.7	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.1

CONTINUED ON NEXT PAGE

85 BEST COPY AVAILABLE

TABLE 39A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
DEPT OF THE TREASURY, TOTAL	0.3	0.3	0.4	0.5	0.4	0.5	0.4	1.5	2.1	4.1	4.5
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	N/A	N/A	N/A	-	-	-	-	-	.4	.4	.7
BUREAU OF ENGR.VING & PRINTING	.3	.3	.4	.5	.4	.5	.4	1.5	1.7	1.9	.6
INTERNAL REVENUE SERVICE	-	-	-	-	-	-	-	-	-	1.8	3.3
OFFICE OF PROTECTIVE RESEARCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UNITED STATES CUSTOMS SERVICE	-	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	43.1	52.5	59.0	63.9	66.5	75.2	83.3	76.2	83.2	90.5	101.8
OTHER AGENCIES											
ACTION	N/A	N/A	.1	-	-	.0	.1	.0	.0	.2	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	.4	.6	.5	.7	.9	1.1	1.2	1.0	1.5	1.7	1.7
AGENCY FOR INTERNATIONAL DEV 10/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66.9
APPALACHIAN REGIONAL COMMISSION	-	-	3.0	-	-	-	-	.7	.6	.3	.7
ATOMIC ENERGY COMMISSION	132.2	146.4	152.1	148.8	149.6	N/A	N/A	N/A	N/A	N/A	N/A
CIVIL SERVICE COMMISSION	.2	.2	.2	.3	.3	1.1	1.0	.8	.7	N/A	N/A
COMMUNITY SERVICES ADMIN	N/A	N/A	N/A	N/A	N/A	.5	.2	-	1.0	2.0	1.8
CONSUMER PRODUCT SAFETY COMM	N/A	N/A	N/A	-	.3	2.6	3.0	3.5	3.7	.9	1.8
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	N/A	195.2	280.7	400.7	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	N/A	47.5	47.7	45.0	65.3	86.8	124.3	141.7	197.0	246.7	248.9
FEDERAL COMMUNICATIONS COMM	.9	1.0	.6	.7	1.1	.9	1.1	1.5	2.0	2.4	2.9
FED EMERGENCY MANAGEMENT AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.9	6.7
FEDERAL ENERGY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	-	.2	1.0	N/A	N/A	N/A
FEDERAL HOME LOAN BANK BOARD	.3	.4	.4	.5	.5	.7	.7	.8	1.7	1.0	.9
FEDERAL TRADE COMMISSION	.5	.4	.4	.6	.7	.9	.9	.6	.8	.9	1.1
GENERAL SERVICES ADMIN 11/	.3	.2	.1	.1	.3	.9	.6	.3	.3	.4	.1
INTERNATIONAL TRADE COMMISSION	-	-	-	-	-	-	-	1.5	2.6	3.1	3.4
INTERSTATE COMMERCE COMMISSION	-	-	-	-	-	-	-	.1	.1	.3	.2
LIBRARY OF CONGRESS	1.8	1.0	1.0	1.2	1.4	.4	.4	.3	.3	.4	.5
NAT'L AERONAUTICS & SPACE ADMIN	423.1	672.7	595.4	433.0	443.6	539.8	625.8	929.6	792.3	865.4	938.4
NATIONAL ARCHIVES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL SCIENCE FOUNDATION	10.8	29.8	45.7	59.6	71.5	105.0	84.0	72.1	63.4	65.5	66.8
NUCLEAR REGULATORY COMMISSION	N/A	N/A	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8
OFFICE OF ECONOMIC OPPORTUNITY	11.0	27.8	59.9	51.1	31.4	-	-	N/A	N/A	N/A	N/A
OFFICE OF EMERGENCY PREPAREDNESS	.5	1.0	.6	.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF PERSONNEL MANAGEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0	1.4
OFFICE OF SCIENCE AND TECHNOLOGY	.5	.6	.6	.6	-	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF TELECOMM POLICY	N/A	N/A	.2	1.2	.6	.3	2.1	1.5	-	-	N/A
POSTAL SERVICE	N/A	N/A	1.0	-	-	-	-	-	-	-	-
SMALL BUSINESS ADMINISTRATION	.2	.1	-	-	-	-	.2	.1	.5	-	-
SPEC ACTION OFF FOR DRUG ABUSE PREVENTION	N/A	N/A	N/A	-	11.0	11.1	3.8	-	N/A	N/A	N/A
TENNESSEE VALLEY AUTHORITY	6.6	6.4	7.5	8.3	12.5	11.6	14.7	16.5	19.3	9.7	12.4
US ARMS CONTROL & DISARMAMENT AGENCY	4.0	3.7	1.4	1.5	1.7	1.1	1.0	1.4	1.8	2.5	2.7
US INFORMATION AGENCY 12/	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1968-76.

2/ FISCAL YEAR 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO THE AGRICULTURE MARKETING SERVICE.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FISCAL YEAR 1980.

7/ IN FISCAL YEAR 1982 THE BONNEVILLE POWER ADMINISTRATION BECAME PART OF THE DEPARTMENT OF ENERGY.

8/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

9/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

10/ INCLUDES PROGRAMS OF THE INTERNATIONAL DEVELOPMENT COOPERATION AGENCY FOR FISCAL YEARS 1979-81.

11/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

12/ INCLUDES THE FORMER INTERNATIONAL COMMUNICATION AGENCY FOR FISCAL YEARS 1977-81.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 39B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

SELECTED AGENCY	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
TOTAL, ALL AGENCIES	6,923.2	7,171.5	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,997.9	9,176.4	9,951.0	9,890.8
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	381.8	426.9	435.7	455.5	442.2	465.6	463.5	473.4	504.6	526.5	501.1
AGRICULTURAL COOPERATIVE SVC 1/	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.7	1.4
AGRICULTURAL MARKETING SVC 2/	1.0	.9	1.0	1.1	1.2	1.3	1.3	1.2	1.3	1.3	-
AGRICULTURAL RESEARCH SVC 3/	170.8	181.5	186.2	202.6	183.7	191.8	188.3	201.1	208.2	215.2	224.0
ANIMAL & PLANT HEALTH INSPECTION SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	4.2	4.9	5.6	7.5	7.2
COOPERATIVE STATE RSCH SVC 4/	109.0	115.5	127.7	133.5	136.2	142.8	137.4	138.0	152.6	162.8	126.6
ECON, STAT & COOP SVC 5/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SERVICE	N/A	35.8	35.3	34.9	39.3	41.7	40.1	38.5	41.4	42.6	44.5
ECONOMICS & STATISTICS SVC 6/	24.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FEDERAL GRAIN INSPECTION SVC	N/A	N/A	N/A	N/A	N/A	.8	.6	.7	.6	.7	.7
FOREST SERVICE	72.3	81.8	69.0	65.1	63.9	65.7	67.5	73.5	79.9	81.3	84.1
HUMAN NUTRITION INFO SERVICE	N/A	-	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.8	9.5
NATIONAL AGRICULTURAL LIBRARY	-	-	-	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	2.6	1.9	1.2	2.5	3.9	5.8	2.9	3.3	1.2	.6	.4
OFFICE OF TRANSPORTATION	-	.3	.3	.3	.3	.5	.4	.4	.3	.4	.2
NAT'L AGRICULTURAL STAT SVC	N/A	7.5	4.7	5.1	5.5	5.6	5.4	2.3	2.4	2.5	2.5
DEPARTMENT OF COMMERCE, TOTAL	238.5	233.2	259.2	265.6	276.1	301.0	312.9	312.8	311.5	326.3	247.2
BUREAU OF THE CENSUS	1.4	2.6	1.6	1.9	2.0	2.1	2.1	2.1	2.4	2.5	2.5
ECONOMIC DEVELOPMENT ADMIN	2.2	1.6	1.6	4.8	5.1	2.0	2.3	5.0	4.2	1.2	-
ENVIRONMENTAL SCIENCE SVCS ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MARITIME ADMINISTRATION	10.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MINORITY BUSINESS DEV AGENCY	-	-	-	-	-	-	-	-	-	-	-
NAT'L INST OF STANDARDS & TECH	46.1	50.6	57.4	63.1	63.5	64.5	63.5	64.3	72.6	81.9	79.7
NAT'L FIRE PREVENTION & CONTROL ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L OCEANIC & ATMOSPHERIC ADMINISTRATION	168.8	168.5	188.5	188.9	197.7	224.4	237.5	234.4	225.0	233.7	157.6
NAT'L TELECOMM & INFO ADMIN	9.6	9.9	10.1	6.9	7.7	7.9	7.6	7.0	7.3	7.0	7.4
OFFICE OF TELECOMMUNICATIONS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	.2	-	-	-	.0	.1	-	.0	-	-	-
PATENT AND TRADEMARK OFFICE	-	-	-	-	-	-	-	-	-	-	-
US TRAVEL & TOURISM ADMIN	-	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,721.4	1,996.6	2,266.1	2,437.0	2,200.7	2,306.9	2,303.3	2,440.0	2,362.2	2,527.3	2,412.0
DEPARTMENT OF THE ARMY	347.1	388.4	451.6	485.3	486.3	582.6	578.8	692.9	588.0	582.2	590.5
DEPARTMENT OF THE NAVY	396.2	460.0	495.4	521.6	449.6	448.2	447.1	432.5	406.0	417.4	411.2
DEPARTMENT OF THE AIR FORCE	429.1	491.5	488.1	524.2	547.7	538.4	542.5	563.2	576.7	550.2	581.0
DEFENSE AGENCIES	549.1	656.7	828.1	905.9	716.6	737.7	735.0	751.3	791.5	977.6	829.3
DEFENSE CIVIL PREPAREDNESS AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF EDUCATION, TOTAL	70.0	33.2	56.3	61.9	68.7	77.3	91.3	103.8	106.6	115.5	119.3
DEPARTMENT OF ENERGY	754.2	827.3	1,053.9	1,193.4	1,194.5	1,198.4	1,080.7	1,029.4	1,050.6	1,105.4	999.8
DEPT OF HLTH, EDUCATION, & WELFARE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CENTERS FOR DISEASE CONTROL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL HEALTH SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOOD & DRUG ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH CARE FINANCING ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF ASST'T SECY FOR EDUC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF ASST'T SECY FOR HLTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF CHILD DEVELOPMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF HUMAN DEVELOPMENT SVCS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOCIAL & REHABILITATION SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOCIAL SECURITY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CONTINUED ON NEXT PAGE

87 BEST COPY AVAILABLE

TABLE 39B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
DEPT OF HLTH & HUMAN SVCS, TOTAL	1,570.1	1,491.9	1,460.9	1,545.4	1,651.5	1,795.8	1,850.8	2,194.0	2,415.6	2,693.8	2,795.7
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	128.8	121.4	128.7	155.4	165.2	179.7	191.5	241.1	286.6	354.8	399.9
CENTERS FOR DISEASE CONTROL	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2	88.7	101.7	105.0
FOOD & DRUG ADMINISTRATION	75.4	71.4	73.0	74.2	77.8	82.1	79.4	85.0	91.0	99.0	108.0
HEALTH CARE FINANCING ADMIN	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3	28.2	50.5	37.0
HEALTH RESOURCES ADMIN	5.1	5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH RESOURCES & SVC'S ADMIN	N/A	N/A	6.1	10.2	15.4	17.3	11.2	8.0	9.0	9.0	9.3
HEALTH SERVICES ADMINISTRATION	6.0	6.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HUMAN DEVELOPMENT SERVICES	19.1	39.5	8.3	6.9	4.5	5.8	6.8	9.4	7.1	9.0	9.1
NATIONAL INSTITUTES OF HEALTH	1,145.1	1,181.5	1,103.8	1,165.2	1,285.6	1,410.1	1,469.0	1,739.1	1,885.6	2,046.1	2,105.8
OFF OF ASST'T SECY FOR HLTH	14.1	16.3	8.2	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	22.0	18.9	13.1	14.4	10.0	9.4	6.1	8.2	4.7	7.9	5.0
SOCIAL SECURITY ADMINISTRATION	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.7	16.6
DEPT OF HOUSING & URBAN DEV	19.6	16.7	10.3	11.3	6.3	6.5	5.3	5.5	6.3	6.5	7.9
DEPT OF THE INTERIOR, TOTAL	282.8	289.2	275.0	254.7	254.3	231.0	234.9	247.3	266.0	259.0	237.1
BONNEVILLE POWER ADMIN 7/	N/A	6.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LAND MANAGEMENT	1.3	1.5	2.4	2.0	1.8	2.8	2.1	2.1	2.2	2.2	1.7
BUREAU OF MINES	71.3	54.4	65.2	55.9	56.7	36.7	36.6	39.6	54.1	49.9	38.3
BUREAU OF RECLAMATION	12.7	13.3	8.9	8.7	8.8	10.9	9.6	10.1	3.6	3.5	4.1
FED WATER POLLUTION CONTROL ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GEOLOGICAL SURVEY 8/	98.5	115.8	99.4	89.9	125.1	130.0	127.8	131.7	135.8	132.9	126.8
HERITAGE CONSERVATION & RECREATION SVC	-	-	-	-	-	-	-	-	-	-	-
MINERAL MANAGEMENT SERVICE	N/A	N/A	-	1.5	1.5	1.4	1.1	1.0	1.2	1.2	1.2
NATIONAL PARK SERVICE	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.2	19.5
OFFICE OF COAL RESEARCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	-	-	-	-	-	-	.1	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7.5	5.8	1.5	1.5	.8	2.0	2.3	1.0	1.0	1.0	1.6
OFFICE OF WATER RSCH & TECH	11.8	8.2	6.8	.8	3.2	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	71.4	73.9	79.6	80.6	42.3	32.2	38.1	43.3	48.7	49.1	43.9
DEPARTMENT OF JUSTICE, TOTAL	19.2	14.9	13.2	17.1	13.2	15.1	17.0	11.8	9.8	10.9	11.0
DRUG ENFORCEMENT ADMIN	.8	.4	1.3	.9	.7	.5	.8	.7	.6	.5	.5
FEDERAL PRISON SYSTEM	.9	1.7	.9	1.3	1.2	1.1	2.7	2.2	2.1	2.1	1.7
IMMIGRATION & NATURALIZATION SVC	.2	.1	.3	.3	.3	.2	.2	.2	.3	.4	.4
OFFICE OF JUSTICE PROGRAMS	16.1	12.0	10.3	14.4	11.0	13.0	13.2	8.6	6.8	7.9	8.4
OFFICE OF LEGAL POLICY	1.3	.7	.4	.2	-	.3	.2	.1	-	-	-
DEPARTMENT OF LABOR, TOTAL	32.6	54.5	10.6	12.7	11.2	9.1	8.7	19.0	26.4	24.5	24.2
BUREAU OF APPRENTICESHIP & TRAINING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LABOR STATISTICS	.9	.3	.3	.7	.5	.6	.6	6.5	7.0	7.2	8.2
EMPLOYMENT STANDARDS ADMIN	4.9	3.2	1.4	1.4	.9	.0	-	1.0	.1	.2	.2
EMPLOYMENT & TRAINING ADMIN	16.2	45.1	2.1	2.6	1.0	.3	2.6	4.0	6.5	6.0	6.1
LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS 9/	N/A	N/A	N/A	N/A	.3	.3	.2	.3	.4	.4	.4
LABOR-MANAGEMENT SVCS ADMIN	2.8	1.8	.7	.9	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HLTH ADMINISTRATION	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.4	4.4
OFFICE OF PENSION & WELFARE BENEFIT PROGRAMS	N/A	N/A	N/A	N/A	1.2	1.6	.3	1.0	2.7	1.3	2.4
OFFICE OF THE SECRETARY	1.4	1.1	.9	1.5	1.9	1.7	1.3	1.8	5.2	4.7	2.4
PENSION BENEFIT GUARANTEE CORPORATION	N/A	.1	.3	.3	.3	.2	.1	.3	.3	.3	.2
WAGE AND HOUR DIVISION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POST OFFICE DEPARTMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF STATE, TOTAL	2.0	1.6	1.5	1.5	1.6	1.5	1.5	.3	1.0	1.0	.1
AGENCY FOR INTERNAT'L DEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF INTELLIGENCE & RSCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENTAL FUNDS	2.0	1.6	1.5	1.5	1.6	1.5	1.5	.3	1.0	1.0	.1
PEACE CORPS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF TRANSPORTATION, TOTAL	82.4	87.4	65.7	71.7	74.2	70.2	67.6	68.4	91.0	108.8	105.7
COAST GUARD	8.1	14.7	1.7	.8	7.2	5.4	3.5	3.7	5.4	4.8	5.0
FEDERAL AVIATION ADMIN	8.2	8.2	7.0	12.5	15.0	17.3	14.0	11.1	13.3	25.9	25.8
FEDERAL HIGHWAY ADMINISTRATION	4.6	5.1	5.3	7.3	6.1	6.3	14.7	20.5	43.5	44.4	42.9
FEDERAL RAILROAD ADMIN	7.9	6.2	3.1	2.8	12.3	11.4	12.5	10.4	8.2	9.3	6.8
MARITIME ADMINISTRATION	N/A	8.9	5.6	5.7	5.1	7.0	6.2	3.1	.5	.3	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMINISTRATION	38.6	29.4	21.3	21.4	24.7	20.9	16.1	18.9	19.1	22.2	23.0
OFFICE OF THE SECRETARY	.6	.7	.3	.3	.9	.9	.4	.4	.7	1.4	1.8
RSCH & SPECIAL PROGRAMS ADMIN	5.5	4.9	2.1	2.6	1.8	.5	.3	.2	.4	.4	.4
URBAN MASS TRANS ADMIN	8.9	9.3	19.4	18.3	1.0	.5	-	-	-	-	-

CONTINUED ON NEXT PAGE

88 BEST COPY AVAILABLE

TABLE 39B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH BY SELECTED AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
DEPT OF THE TREASURY, TOTAL	4.0	2.9	5.9	6.7	6.6	13.6	12.7	12.7	11.1	14.8	16.7
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	.3	.1	-	-	-	-	-	-	-	-	-
BUREAU OF ENGRAVING & PRINTING	1.3	.9	2.8	1.4	1.4	3.1	2.7	2.7	1.1	2.8	3.0
INTERNAL REVENUE SERVICE	2.2	1.8	3.1	5.0	4.9	10.2	9.5	9.7	9.0	11.3	13.3
OFFICE OF PROTECTIVE RESEARCH	-	-	-	.3	.1	.2	.2	.1	.3	.4	.4
UNITED STATES CUSTOMS SERVICE	.1	.1	.0	-	.1	.1	.2	.2	.7	.4	-
DEPARTMENT OF VETERANS AFFAIRS	103.6	112.7	110.1	132.0	156.1	193.7	155.1	173.1	178.8	197.7	169.3
OTHER AGENCIES											
ACTION	-	-	-	-	-	-	-	-	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.4	1.4
AGENCY FOR INTERNATIONAL DEV 10/	79.7	86.4	127.9	152.6	164.0	158.1	180.7	151.2	132.1	88.1	108.4
APPALACHIAN REGIONAL COMMISSION	.6	.3	.3	.2	.4	.2	.2	.1	.2	.4	-
ATOMIC ENERGY COMMISSION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CIVIL SERVICE COMMISSION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COMMUNITY SERVICES ADMIN	1.3	1.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONSUMER PRODUCT SAFETY COMM	1.6	.2	.1	.3	1.1	1.4	1.1	.6	.1	.4	.1
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	231.5	207.8	210.7	152.4	142.3	176.0	179.3	246.1	240.7	259.3	262.2
FEDERAL COMMUNICATIONS COMM	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0	1.2	1.2	1.3
FED EMERGENCY MANAGEMENT AGENCY	6.7	6.4	7.8	3.3	6.1	2.9	N/A	N/A	N/A	N/A	N/A
FEDERAL ENERGY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FEDERAL HOME LOAN BANK BOARD	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4	3.4	4.0	4.2
FEDERAL TRADE COMMISSION	1.5	.2	.2	.2	.2	.3	.3	.5	.4	.4	.5
GENERAL SERVICES ADMIN 11/	.1	.4	.5	.2	.4	.3	.9	1.6	2.3	1.7	.6
INTERNATIONAL TRADE COMMISSION	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.0	9.4
INTERSTATE COMMERCE COMMISSION	.1	-	-	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	.5	.7	.7	1.0	1.5	1.5	1.1	1.1	1.2	1.2	1.6
NAT'L AERONAUTICS & SPACE ADMIN	1,050.5	876.0	871.4	927.8	954.7	1,032.7	1,152.3	1,255.5	1,218.9	1,426.1	1,584.2
NATIONAL ARCHIVES	N/A	N/A	N/A	N/A	N/A	.1	-	.3	.3	.4	.3
NATIONAL SCIENCE FOUNDATION	58.4	58.9	57.1	62.9	70.5	83.8	78.1	99.3	99.6	110.4	126.9
NUCLEAR REGULATORY COMMISSION	182.7	219.7	220.3	207.3	190.7	150.0	123.8	122.5	108.5	115.9	130.0
OFFICE OF ECONOMIC OPPORTUNITY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EMERGENCY PREPAREDNESS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF PERSONNEL MANAGEMENT	2.6	3.4	-	-	-	-	-	-	-	-	-
OFFICE OF SCIENCE AND TECHNOLOGY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF TELECOMM POLICY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POSTAL SERVICE	-	-	-	-	-	-	-	-	-	-	-
SMALL BUSINESS ADMINISTRATION	-	-	-	-	-	-	-	-	-	-	-
SPEC ACTION OFF FOR DRUG ABUSE PREVENTION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TENNESSEE VALLEY AUTHORITY	11.2	9.4	8.1	6.7	9.2	8.9	10.5	13.8	15.3	13.3	12.5
US ARMS CONTROL & DISARMAMENT AGENCY	3.0	1.6	1.3	.8	1.2	1.1	.9	.4	.8	.7	.2
US INFORMATION AGENCY 12/	.1	1.0	-	.0	1.4	.1	1.6	-	.1	.1	-

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1968-76.

2/ FISCAL YEAR 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO THE AGRICULTURE MARKETING SERVICE.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FISCAL YEAR 1980.

7/ IN FISCAL YEAR 1982 THE BONNEVILLE POWER ADMINISTRATION BECAME PART OF THE DEPARTMENT OF ENERGY.

8/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

9/ IN 1984 THE LABOR-MANAGEMENT SERVICES ADMINISTRATION WAS REPLACED BY LABOR-MANAGEMENT RELATIONS AND COOPERATIVE PROGRAMS.

10/ INCLUDES PROGRAMS OF THE INTERNATIONAL DEVELOPMENT COOPERATION AGENCY FOR FISCAL YEARS 1979-81.

11/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

12/ INCLUDES THE FORMER INTERNATIONAL COMMUNICATION AGENCY FOR FISCAL YEARS 1977-81.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH OR IN THAT ORGANIZATION IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

89 BEST COPY AVAILABLE

TABLE 40A. FEDERAL OBLIGATIONS FOR DEVELOPMENT BY SELECTED AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

SELECTED AGENCY	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL, ALL AGENCIES	10,996.0	10,438.1	10,419.3	10,948.2	11,218.7	11,234.9	12,309.1	13,160.3	14,936.3	16,238.4	17,610.1
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	8.8	9.2	12.8	12.4	12.4	13.6	18.1	20.2	22.9	26.8	31.1
AGRICULTURAL MARKETING SVC 1/	N/A	N/A	N/A	-	-	-	-	-	-	-	.5
AGRICULTURAL RESEARCH SVC 2/	7.7	8.2	11.6	9.9	9.8	10.2	13.0	14.5	18.0	21.8	24.9
ECON, STAT & COOP SVC 3/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.8	-	-
FEDERAL GRAIN INSPECTION SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	.8	.9	.9	2.2	2.3	3.2	4.9	5.4	4.2	5.0	5.0
OFF OF INTERNAT'L COOPERATION & DEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
OFFICE OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.7
NAT'L AGRICULTURAL STAT SVC	.2	.2	.2	.3	.3	.2	.2	.3	N/A	N/A	N/A
DEPARTMENT OF COMMERCE, TOTAL	16.2	27.5	30.0	43.9	60.4	51.4	71.0	73.1	68.6	90.9	89.9
BUREAU OF THE CENSUS	.9	1.4	2.1	2.1	.5	.4	.4	.4	.6	1.1	1.2
ECONOMIC DEVELOPMENT ADMIN	2.5	5.0	2.9	5.7	5.4	3.2	9.2	13.0	12.5	32.6	34.6
ENVIRONMENTAL SCIENCE SVCS ADMINISTRATION	5.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MARITIME ADMINISTRATION	5.7	7.7	7.5	1.5	17.8	17.3	17.1	14.0	11.1	12.6	7.4
MINORITY BUSINESS DEV AGENCY	-	-	-	.5	2.1	.8	3.7	1.6	2.7	-	-
NAT'L INST OF STANDARDS & TECH	1.8	2.5	3.9	4.9	5.8	7.6	8.4	9.9	8.3	9.8	16.0
NAT'L FIRE PREVENTION & CONTROL ADMINISTRATION	N/A	N/A	N/A	-	-	-	2.9	3.2	2.1	N/A	N/A
NAT'L OCEANIC & ATMOSPHERIC ADMINISTRATION	N/A	10.8	13.4	24.9	26.5	22.0	28.3	30.2	29.9	33.5	28.5
NAT'L TELECOMM & INFO ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.9	.7	1.7
OFFICE OF TELECOMMUNICATIONS	N/A	-	-	3.6	1.2	-	.7	.5	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	-	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	.1	.1	.2	.6	.6	.2	.3	.2	.5	.5	.5
US TRAVEL & TOURISM ADMIN	-	-	-	-	.4	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	6,284.4	6,030.5	6,199.8	6,813.6	6,968.1	6,986.0	7,581.5	8,127.2	9,227.5	9,729.6	10,492.1
DEPARTMENT OF THE ARMY	1,369.1	1,337.7	1,372.4	1,692.6	1,636.5	1,643.4	1,560.4	1,651.3	2,043.9	2,139.1	2,320.1
DEPARTMENT OF THE NAVY	1,829.4	1,902.0	1,929.7	2,113.0	2,268.4	2,317.2	2,693.7	2,890.1	3,320.0	3,472.1	3,767.7
DEPARTMENT OF THE AIR FORCE	2,982.1	2,665.4	2,791.6	2,912.0	2,932.6	2,874.6	3,157.7	3,344.3	3,605.3	3,813.6	4,033.4
DEFENSE AGENCIES	103.8	125.4	106.0	96.0	105.6	126.6	145.9	217.5	248.0	276.2	341.7
TEST & EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	N/A	N/A	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3
DIRECTOR, OPERATIONAL TEST AND EVALUATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	72.9
DEPARTMENT OF ENERGY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,645.0	3,142.6	3,506.9
DEPT OF HLTH, EDUCATION, & WELFARE, TOTAL	213.4	180.0	244.2	319.1	393.4	443.4	472.6	432.8	409.0	466.5	N/A
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	-	-	-	2.8	1.0	1.4	N/A
CENTERS FOR DISEASE CONTROL	N/A	N/A	N/A	N/A	.2	-	-	-	-	-	N/A
ENVIRONMENTAL HEALTH SERVICE	19.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOOD & DRUG ADMINISTRATION	6.9	-	-	-	-	-	-	-	-	-	N/A
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	-	41.6	46.1	26.6	7.2	-	.5	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	3.0	3.1	6.7	8.0	8.1	7.6	N/A
HLTH SVCS & MENTAL HLTH ADMIN	27.9	28.1	43.7	44.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	-	90.7	66.2	65.8	52.9	37.8	54.9	N/A
NATIONAL INSTITUTES OF HEALTH	94.9	92.8	125.5	172.0	182.1	247.1	275.7	292.6	311.2	348.3	N/A
OFF OF ASST'T SECY FOR HLTH	-	-	-	-	-	-	-	-	3.6	3.6	N/A
OFFICE OF CHILD DEVELOPMENT	-	1.0	3.3	5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	57.7	55.1	69.6	94.0	51.6	45.1	40.6	36.8	19.2	19.6	N/A
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	18.7	35.8	57.3	27.3	28.1	30.7	N/A
SOCIAL & REHABILITATION SVC	6.8	3.1	2.0	3.8	5.3	-	-	-	N/A	N/A	N/A
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	-	-	-	5.3	-	-	N/A

CONTINUED ON NEXT PAGE

90 BEST COPY AVAILABLE

TABLE 40A. FEDERAL OBLIGATIONS FOR DEVELOPMENT BY SELECTED AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
DEPT OF HLTH & HUMAN SVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	489.2
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.7
HEALTH RESOURCES & SVC'S ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.5
HUMAN DEVELOPMENT SERVICES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	42.2
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	423.0
OFF OF ASST'T SECY FOR HLTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.7
OFFICE OF THE SECRETARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
DEPT OF HOUSING & URBAN DEV	6.0	22.8	37.2	36.4	39.5	31.0	28.5	30.6	19.4	39.2	44.1
DEPT OF THE INTERIOR, TOTAL	44.1	36.2	54.7	71.4	83.6	48.9	69.3	73.7	58.7	75.5	66.3
BONNEVILLE POWER ADMIN 4/	1.6	1.3	1.4	2.2	2.5	2.0	5.5	6.5	N/A	N/A	N/A
BUREAU OF LAND MANAGEMENT	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.2
BUREAU OF MINES	5.0	12.6	21.6	30.2	36.1	35.6	54.7	58.0	49.6	57.0	41.9
BUREAU OF RECLAMATION	.0	.1	.1	.2	.3	.5	.5	.4	.6	.6	.8
FED WATER POLLUTION CONTROL ADMINISTRATION	11.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GEOLOGICAL SURVEY 5/	-	-	-	-	3.7	-	-	-	-	-	.5
NATIONAL PARK SERVICE	-	-	-	-	-	-	-	-	.3	-	-
OFFICE OF COAL RESEARCH	4.0	3.3	11.4	16.0	20.8	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	-	1.1	17.2	.1	.4	-	-	-	-
OFFICE OF WATER RSCH & TECH	16.6	17.0	17.9	19.2	-	7.4	4.0	5.1	2.8	12.0	9.4
US FISH & WILDLIFE SERVICE	5.8	2.0	2.1	2.4	3.0	3.3	4.1	3.7	5.4	5.7	13.5
DEPARTMENT OF JUSTICE, TOTAL	2.2	3.3	3.8	11.0	26.2	16.1	25.4	15.5	10.1	15.2	14.1
DRUG ENFORCEMENT ADMIN	-	-	-	-	-	3.3	.6	2.0	2.1	1.4	1.7
FED BUREAU OF INVESTIGATION	.3	.2	1.0	.7	.7	1.9	1.2	1.2	1.4	1.8	3.1
FEDERAL PRISON SYSTEM	.0	.2	.4	.5	.5	.5	.6	.8	1.0	2.9	2.9
IMMIGRATION & NATURALIZATION SVC	-	-	-	-	-	-	.0	-	.1	.2	.1
OFFICE OF JUSTICE PROGRAMS	1.9	2.9	2.5	9.8	24.9	10.4	23.0	11.5	5.4	8.3	6.3
OFFICE OF LEGAL POLICY	-	-	-	-	-	-	-	-	-	.6	.0
DEPARTMENT OF LABOR, TOTAL	3.1	9.3	9.2	9.9	6.6	6.6	10.1	10.5	10.8	72.1	94.9
BUREAU OF APPRENTICESHIP & TRAINING	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LABOR STATISTICS	1.2	1.2	.9	2.3	.2	1.0	1.1	.5	.5	.5	-
EMPLOYMENT STANDARDS ADMIN	.1	-	-	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	1.7	8.1	8.3	7.4	5.9	4.5	8.3	10.0	10.4	71.7	94.9
LABOR-MANAGEMENT SVCS ADMIN	-	-	-	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HLTH ADMINISTRATION	N/A	N/A	-	.2	.5	.9	.7	-	-	-	-
OFFICE OF THE SECRETARY	N/A	N/A	.0	.0	.0	.2	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POST OFFICE DEPARTMENT	16.5	34.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF STATE, TOTAL	4.5	8.7	1.1	.9	1.6	4.7	5.4	14.2	23.1	36.1	.5
AGENCY FOR INTERNAT'L DEV	4.5	8.7	1.1	.9	.9	4.3	4.9	13.8	22.9	35.7	N/A
DEPARTMENTAL FUNDS	-	-	-	-	.7	.4	.5	.5	.2	.4	.5
PEACE CORPS	.0	.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF TRANSPORTATION, TOTAL	174.4	244.5	400.2	212.3	233.4	308.0	257.7	263.4	302.8	341.8	303.1
COAST GUARD	13.3	14.3	16.8	25.3	22.4	14.8	11.6	9.8	16.4	21.4	10.2
FEDERAL AVIATION ADMIN	136.9	46.1	329.0	78.7	61.6	111.1	91.5	94.5	98.7	103.7	103.0
FEDERAL HIGHWAY ADMINISTRATION	7.7	4.2	2.9	.4	21.7	37.6	41.3	27.0	50.2	46.8	48.5
FEDERAL RAILROAD ADMIN	2.0	2.0	3.7	17.0	20.2	31.9	29.7	41.8	35.3	44.7	36.7
MARITIME ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L HIGHWAY TRAFFIC SAFETY ADMINISTRATION	N/A	3.6	12.0	29.3	32.9	38.7	22.0	21.5	19.5	28.3	26.6
OFFICE OF THE SECRETARY	2.1	160.5	6.6	10.7	14.6	14.6	16.9	21.9	23.8	27.6	11.1
RSCH & SPECIAL PROGRAMS ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	.8	10.0
URBAN MASS TRANS ADMIN	12.4	13.8	29.3	51.0	60.0	59.3	44.8	46.9	58.9	68.5	56.9

CONTINUED ON NEXT PAGE

BEST COPY AVAILABLE

NS 1.18:38

FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT:
FISCAL YEARS 1988, 1989, AND 1990... VOLUME XXXVIII
NSF90-306... NATIONAL SCIENCE FOUNDATION

2 OF 2
24X
SUPTDOCS/GPO
P.0092-0108

TABLE 40A. FEDERAL OBLIGATIONS FOR DEVELOPMENT BY SELECTED AGENCY: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
DEPT OF THE TREASURY, TOTAL	0.3	0.3	0.4	0.8	0.6	0.7	1.3	2.3	2.7	5.8	4.8
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	N/A	N/A	N/A	-	-	-	-	-	.7	1.6	1.9
BUREAU OF ENGRAVING & PRINTING	.3	.3	.4	.8	.6	.7	1.3	1.3	.8	1.8	1.5
INTERNAL REVENUE SERVICE	-	-	-	-	-	-	-	-	-	.6	.1
OFFICE OF PROTECTIVE RESEARCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UNITED STATES CUSTOMS SERVICE	-	-	-	-	-	-	-	1.0	1.2	1.8	1.3
UNITED STATES MINT	-	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF VETERANS AFFAIRS	.7	.9	.8	2.0	4.5	6.1	7.7	12.6	14.7	14.6	15.6
OTHER AGENCIES											
ACTION	N/A	N/A	-	-	-	.1	-	-	.4	1.4	1.6
AGENCY FOR INTERNATIONAL DEV 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39.6
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	-	-	-	-	.1	.1	.2
ATOMIC ENERGY COMMISSION	988.6	912.9	873.9	880.5	938.4	N/A	N/A	N/A	N/A	N/A	N/A
CIVIL SERVICE COMMISSION	-	.2	.2	.6	1.9	1.8	2.9	2.9	2.8	N/A	N/A
COMMUNITY SERVICES ADMIN	N/A	N/A	N/A	N/A	N/A	21.3	22.9	10.2	23.0	22.3	18.9
CONSUMER PRODUCT SAFETY COMM	N/A	N/A	N/A	-	.1	1.6	3.0	2.1	3.0	2.9	2.1
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	N/A	1,024.2	1,453.9	1,717.3	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	N/A	35.5	82.9	71.3	106.3	72.9	115.9	103.7	90.2	132.0	151.1
FED EMERGENCY MANAGEMENT AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2	2.9
FEDERAL ENERGY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	-	1.1	1.9	N/A	N/A	N/A
GENERAL SERVICES ADMIN 7/	.0	.1	.1	.1	.2	.4	.9	.7	.5	.5	.3
LIBRARY OF CONGRESS	-	1.0	1.5	1.2	1.2	1.8	2.2	2.5	3.4	4.4	5.3
NAT'L AERONAUTICS & SPACE ADMIN	3,160.7	2,769.7	2,335.2	2,392.6	2,267.0	2,156.5	2,129.3	2,224.0	1,964.7	1,988.1	2,127.2
NATIONAL ARCHIVES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL SCIENCE FOUNDATION	15.4	14.2	18.7	27.6	15.9	36.2	25.0	13.5	8.7	5.3	7.9
OFFICE OF ECONOMIC OPPORTUNITY	52.2	94.0	70.8	37.4	55.5	-	-	N/A	N/A	N/A	N/A
OFFICE OF PERSONNEL MANAGEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.5	4.6
OFFICE OF SCIENCE AND TECHNOLOGY	.9	.9	1.0	1.0	-	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF TELECOMM POLICY	N/A	N/A	-	-	-	-	1.7	2.7	-	-	N/A
POSTAL SERVICE	N/A	N/A	38.7	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	1.7	1.8	1.8	1.8	1.8	1.6	1.9	2.2	3.6	18.0	21.9
US ARMS CONTROL & DISARMAMENT AGENCY	2.0	.5	.4	.4	.2	.0	.0	.0	.4	1.2	.8
US INFORMATION AGENCY 8/	.0	.1	.0	.0	.0	.0	-	.0	.0	.0	.0

1/ FISCAL YEAR 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO AMS.

2/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

3/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

4/ IN FISCAL YEAR 1982 THE BONNEVILLE POWER ADMINISTRATION BECAME PART OF THE DEPARTMENT OF ENERGY.

5/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

6/ INCLUDES PROGRAMS OF THE INTERNATIONAL DEVELOPMENT COOPERATION AGENCY FOR FISCAL YEARS 1979-81.

7/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

8/ INCLUDES THE FORMER INTERNATIONAL COMMUNICATION AGENCY FOR FISCAL YEARS 1977-81.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH OR IN THAT ORGANIZATION IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 40B. FEDERAL OBLIGATIONS FOR DEVELOPMENT BY SELECTED AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

SELECTED AGENCY	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
TOTAL, ALL AGENCIES	18,233.1	20,891.1	23,410.4	24,458.0	27,246.1	32,226.1	34,910.2	37,312.7	38,285.1	41,486.6	44,992.6
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	30.2	33.0	30.8	30.0	31.3	32.0	32.1	29.0	31.4	31.4	32.1
AGRICULTURAL MARKETING SVC 1/	.3	.2	.2	.3	.3	.3	.3	.3	.3	.3	-
AGRICULTURAL RESEARCH SVC 2/	23.3	26.2	25.8	25.5	27.0	27.7	27.4	24.0	26.3	26.2	27.3
ECON, STAT & COOP SVC 3/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FEDERAL GRAIN INSPECTION SVC	N/A	N/A	N/A	N/A	N/A	.2	.3	.5	.4	.4	.4
FOREST SERVICE	5.5	6.2	4.5	3.8	3.3	3.3	3.6	3.8	4.0	4.2	4.3
OFF OF INTERNAT'L COOPERATION & DEV	.4	.3	.2	.4	.7	.4	.3	.3	.2	.1	.1
OFFICE OF TRANSPORTATION	.8	.1	.1	.1	.1	.2	.1	.1	.1	.1	.1
NAT'L AGRICULTURAL STAT SVC	N/A	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	88.1	78.6	60.2	50.2	61.5	74.6	59.7	63.7	46.6	47.2	31.9
BUREAU OF THE CENSUS	1.2	.9	1.9	2.1	2.1	2.4	2.1	1.9	1.9	2.1	2.2
ECONOMIC DEVELOPMENT ADMIN	29.8	26.3	8.0	-	-	11.0	8.0	-	-	-	-
ENVIRONMENTAL SCIENCE SVCS ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MARITIME ADMINISTRATION	7.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MINORITY BUSINESS DEV AGENCY	-	-	-	-	-	-	-	-	-	-	-
NAT'L INST OF STANDARDS & TECH	17.3	16.3	14.9	13.6	11.8	14.0	11.6	9.3	9.1	13.5	12.1
NAT'L FIRE PREVENTION & CONTROL ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L OCEANIC & ATMOSPHERIC ADMINISTRATION	30.9	32.9	33.5	33.1	46.6	45.4	37.2	51.7	34.8	30.7	16.7
NAT'L TELECOMM & INFO ADMIN	1.1	1.1	1.2	1.4	.9	1.2	.8	.8	.8	.9	.9
OFFICE OF TELECOMMUNICATIONS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	.0	-	-	.0	.1	.6	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	.5	1.1	.7	-	-	-	-	-	-	-	-
US TRAVEL & TOURISM ADMIN	-	-	-	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	11,719.2	13,907.7	17,669.8	19,770.1	22,324.3	26,623.2	29,710.7	31,884.0	32,176.0	34,194.8	36,865.8
DEPARTMENT OF THE ARMY	2,500.7	2,707.7	3,121.3	3,304.5	3,516.8	3,747.4	3,982.1	4,109.6	4,052.3	4,593.9	5,045.3
DEPARTMENT OF THE NAVY	4,095.0	4,308.0	5,066.4	5,241.2	6,840.2	8,336.1	8,865.9	8,721.1	8,766.2	8,856.1	9,571.1
DEPARTMENT OF THE AIR FORCE	4,673.7	6,351.9	8,724.0	10,124.2	11,351.5	12,524.3	12,834.8	14,562.9	14,260.5	14,528.2	14,271.3
DEFENSE AGENCIES	411.9	499.1	717.1	1,038.7	557.3	1,964.8	3,910.7	4,353.5	4,868.4	6,009.7	7,558.0
TEST & EVALUATION, DEPUTY UNDER SECRETARY DEFENSE	37.9	41.1	41.0	61.6	58.6	50.6	117.1	128.5	160.3	158.5	273.3
DIRECTOR, OPERATIONAL TEST AND EVALUATION	N/A	N/A	N/A	N/A	N/A	N/A	-	8.4	68.2	52.3	146.2
DEPARTMENT OF EDUCATION, TOTAL	51.8	51.1	57.5	35.6	34.8	33.0	25.5	25.6	29.7	41.2	20.1
DEPARTMENT OF ENERGY	3,476.4	3,504.6	3,012.1	2,575.6	2,648.7	2,825.0	2,648.0	2,659.4	2,801.0	3,059.6	2,888.0
DEPT OF HLTH, EDUCATION, & WELFARE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CENTERS FOR DISEASE CONTROL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL HEALTH SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FOOD & DRUG ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH RESOURCES ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEALTH SERVICES ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF ASST'T SECY FOR HLTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF CHILD DEVELOPMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFF OF HUMAN DEVELOPMENT SVCS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOCIAL & REHABILITATION SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOCIAL SECURITY ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CONTINUED ON NEXT PAGE

93 BEST COPY AVAILABLE

TABLE 40B. FEDERAL OBLIGATIONS FOR DEVELOPMENT BY SELECTED AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
DEPT OF HLTH & HUMAN SVCS, TOTAL	447.4	434.9	335.2	331.7	364.7	422.7	468.0	584.3	661.1	783.0	826.2
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	-	1.8	2.1	1.8	1.2	1.1	1.2	2.2	2.4	3.3	4.0
HEALTH RESOURCES & SVC'S ADMIN	N/A	N/A	3.4	2.3	2.3	1.5	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	18.7	10.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HUMAN DEVELOPMENT SERVICES	30.1	33.8	18.5	16.6	13.8	18.5	47.8	43.6	46.8	95.7	96.3
NATIONAL INSTITUTES OF HEALTH .	394.4	384.9	308.7	311.0	347.0	399.6	417.5	536.2	610.2	682.1	724.5
OFF OF ASST'T SECY FOR HLTH ...	4.2	4.3	2.2	-	-	1.7	1.5	2.3	1.6	1.8	1.4
OFFICE OF THE SECRETARY	-	-	.3	-	.4	.2	-	-	-	-	-
DEPT OF HOUSING & URBAN DEV	36.4	31.4	18.5	20.8	11.9	12.0	10.1	10.8	12.1	11.7	13.9
DEPT OF THE INTERIOR, TOTAL	56.8	57.3	29.6	24.8	30.7	22.4	17.3	21.7	24.3	26.0	21.9
BONNEVILLE POWER ADMIN 4/.....	N/A	7.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LAND MANAGEMENT	.3	.4	2.9	1.9	2.0	1.6	1.3	1.6	1.5	1.5	1.3
BUREAU OF MINES	30.6	28.7	13.6	9.2	11.6	3.3	2.8	3.6	5.2	4.3	2.0
BUREAU OF RECLAMATION	1.2	.9	1.1	1.2	1.4	2.0	.5	.5	.7	.3	.3
FED WATER POLLUTION CONTROL ADMINISTRATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GEOLOGICAL SURVEY 5/.....	.5	.5	.5	2.3	4.9	4.4	7.4	10.3	10.9	12.8	12.7
NATIONAL PARK SERVICE	-	-	-	-	-	-	-	-	-	-	-
OFFICE OF COAL RESEARCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF THE SECRETARY	-	-	-	-	-	-	-	-	.3	.4	.5
OFFICE OF WATER RSCH & TECH ...	10.9	5.3	1.3	1.0	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	13.4	13.7	10.3	9.2	10.8	11.1	5.3	5.7	5.7	6.7	5.1
DEPARTMENT OF JUSTICE, TOTAL	12.7	7.0	10.4	10.7	6.6	16.7	14.1	22.5	25.7	19.6	18.1
DRUG ENFORCEMENT ADMIN	1.9	.9	1.9	1.6	1.2	1.1	1.7	1.5	1.9	1.4	1.4
FED BUREAU OF INVESTIGATION ...	1.4	.7	2.7	2.5	1.0	9.5	7.2	8.0	12.7	6.6	6.7
FEDERAL PRISON SYSTEM	1.3	.9	.7	.4	.4	.4	.3	4.9	3.9	4.0	2.5
IMMIGRATION & NATURALIZATION SVC	.2	.1	.4	.3	.3	.2	.2	.2	-	-	-
OFFICE OF JUSTICE PROGRAMS	7.5	4.4	4.6	5.8	3.8	5.5	4.7	7.9	7.1	7.5	7.5
OFFICE OF LEGAL POLICY	.5	.1	.0	.1	-	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	101.6	4.0	8.3	1.9	-	.9	.9	1.2	8.9	7.6	11.4
BUREAU OF APPRENTICESHIP & TRAINING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUREAU OF LABOR STATISTICS	-	-	-	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMIN	-	-	-	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN ...	101.6	3.6	7.4	1.1	-	-	-	.3	8.0	6.4	10.6
LABOR-MANAGEMENT SVCS ADMIN ...	-	-	-	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HLTH ADMINISTRATION	-	-	-	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	-	.9	.9	.9	.9	1.2	.8
PENSION BENEFIT GUARANTEE CORPORATION	N/A	.4	.8	.8	-	-	-	-	-	-	-
POST OFFICE DEPARTMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF STATE, TOTAL	.3	.2	-	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENTAL FUNDS	.3	.2	-	-	-	-	-	-	-	-	-
PEACE CORPS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF TRANSPORTATION, TOTAL ...	278.8	327.0	243.4	275.1	370.6	357.6	317.3	255.7	212.9	226.2	224.4
COAST GUARD	9.9	11.3	18.3	18.4	12.2	13.6	13.4	13.3	15.7	13.7	13.7
FEDERAL AVIATION ADMIN	94.9	111.8	87.3	113.7	251.2	269.0	246.6	156.2	147.3	153.6	155.6
FEDERAL HIGHWAY ADMINISTRATION	46.5	46.1	35.0	43.1	40.3	42.6	30.8	55.5	29.9	37.6	32.4
FEDERAL RAILROAD ADMIN	38.3	30.4	15.1	13.7	6.9	3.6	2.9	.8	1.8	2.1	1.7
MARITIME ADMINISTRATION	N/A	4.7	4.5	8.8	1.3	5.9	2.6	2.5	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMINISTRATION	24.9	36.5	34.1	30.6	32.2	7.2	6.3	9.0	9.2	11.4	11.4
OFFICE OF THE SECRETARY	10.2	9.4	3.0	4.6	4.0	3.9	4.7	4.1	5.0	4.3	6.3
RSCH & SPECIAL PROGRAMS ADMIN .	8.5	7.9	4.0	3.6	3.5	2.2	1.7	1.8	1.7	1.3	1.3
URBAN MASS TRANS ADMIN	45.5	68.9	42.0	38.6	19.1	9.7	8.2	12.6	2.3	2.1	2.0

CONTINUED ON NEXT PAGE

94 BEST COPY AVAILABLE

TABLE 40B. FEDERAL OBLIGATIONS FOR DEVELOPMENT BY SELECTED AGENCY: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

- CONTINUED

SELECTED AGENCY	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
DEPT OF THE TREASURY, TOTAL	6.3	6.1	5.2	5.4	3.3	6.0	6.3	9.5	10.2	11.6	10.5
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1.2	.2	-	-	-	-	-	-	-	-	-
BUREAU OF ENGRAVING & PRINTING	1.0	1.8	2.0	1.9	1.3	1.6	1.1	1.7	.8	1.2	1.4
INTERNAL REVENUE SERVICE	.1	.0	.1	.1	.2	1.3	.2	.4	.7	.3	.3
OFFICE OF PROTECTIVE RESEARCH .	.4	.6	-	.0	.1	.5	.0	.3	-	.3	.3
UNITED STATES CUSTOMS SERVICE .	3.7	3.4	3.1	3.3	1.7	2.1	4.6	6.8	8.5	7.3	7.8
UNITED STATES MINT	-	-	-	-	-	.6	.3	.2	.1	2.5	.7
DEPARTMENT OF VETERANS AFFAIRS ..	15.5	16.7	14.3	15.3	18.4	17.5	16.3	19.2	19.2	18.5	18.3
OTHER AGENCIES											
ACTION	-	-	-	-	-	-	-	-	-	-	-
AGENCY FOR INTERNATIONAL DEV 6/..	69.7	47.8	72.0	70.6	70.3	60.5	66.2	63.5	69.3	50.7	60.6
APPALACHIAN REGIONAL COMMISSION .	.2	.1	.1	-	.1	-	-	-	-	-	-
ATOMIC ENERGY COMMISSION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CIVIL SERVICE COMMISSION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COMMUNITY SERVICES ADMIN	29.1	16.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONSUMER PRODUCT SAFETY COMM	1.9	.3	.1	.2	.2	1.0	.9	1.6	.9	1.0	.5
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	99.9	107.4	91.7	66.1	89.2	105.8	99.5	71.0	79.5	82.5	82.3
FED EMERGENCY MANAGEMENT AGENCY .	2.5	2.5	-	-	5.4	1.2	N/A	N/A	N/A	N/A	N/A
FEDERAL ENERGY ADMINISTRATION ...	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GENERAL SERVICES ADMIN 7/.....	.1	.2	.5	.3	2.0	-	.3	-	-	-	-
LIBRARY OF CONGRESS	6.3	4.0	4.9	6.0	5.4	5.0	5.0	5.0	5.5	5.9	7.0
NAT'L AERONAUTICS & SPACE ADMIN .	1,624.4	2,186.0	1,670.7	1,116.8	1,112.7	1,543.6	1,350.8	1,517.8	1,998.8	2,823.9	3,824.1
NATIONAL ARCHIVES	N/A	N/A	N/A	N/A	N/A	.3	1.0	.4	.2	.3	.1
NATIONAL SCIENCE FOUNDATION	8.1	6.1	2.2	-	-	-	-	-	-	-	-
OFFICE OF ECONOMIC OPPORTUNITY ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF PERSONNEL MANAGEMENT ..	4.2	5.0	-	-	-	-	-	-	-	-	-
OFFICE OF SCIENCE AND TECHNOLOGY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF TELECOMM POLICY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POSTAL SERVICE	-	-	-	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	64.3	54.7	72.3	50.7	53.8	65.1	59.8	60.2	68.8	42.2	35.2
US ARMS CONTROL & DISARMAMENT AGENCY	.8	.8	.6	.1	.2	-	.1	3.2	2.6	1.6	-
US INFORMATION AGENCY 8/.....	.0	.3	.1	-	-	-	.4	3.5	.3	.1	-

1/ FISCAL YEAR 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO AMS.

2/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE AND EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

3/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

4/ IN FISCAL YEAR 1982 THE BONNEVILLE POWER ADMINISTRATION BECAME PART OF THE DEPARTMENT OF ENERGY.

5/ THE OFFICE OF WATER RESEARCH AND TECHNOLOGY HAS BEEN COMBINED WITH THE GEOLOGICAL SURVEY.

6/ INCLUDES PROGRAMS OF THE INTERNATIONAL DEVELOPMENT COOPERATION AGENCY FOR FISCAL YEARS 1979-81.

7/ THE NATIONAL ARCHIVES IS NO LONGER INCLUDED AS A COMPONENT OF THE GENERAL SERVICES ADMINISTRATION.

8/ INCLUDES THE FORMER INTERNATIONAL COMMUNICATION AGENCY FOR FISCAL YEARS 1977-81.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH OR IN THAT ORGANIZATION IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

95 BEST COPY AVAILABLE

TABLE 41A. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY PERFORMER: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

PERFORMER	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL	15,640.9	15,338.9	15,542.5	16,495.9	16,800.2	17,410.1	19,038.8	20,779.7	23,450.4	25,845.1	28,145.1
FEDERAL INTRAMURAL 1/	3,501.2	4,079.3	4,228.3	4,589.2	4,762.2	4,910.9	5,354.0	5,768.7	6,011.7	6,810.4	7,417.5
INDUSTRIAL FIRMS EXCL FFRDC'S	8,703.1	7,770.1	7,587.5	7,716.0	7,731.3	7,752.3	8,423.2	9,340.3	10,717.2	11,400.0	12,172.4
FFRDC'S ADMIN BY INDUST FIRMS	427.1	430.7	480.2	529.9	582.4	592.8	703.7	813.8	1,112.7	1,242.5	1,318.1
UNIV & COL EXCLUDING FFRDC'S	1,529.2	1,475.6	1,644.6	1,903.5	1,916.6	2,214.0	2,411.4	2,551.8	2,905.5	3,374.6	3,888.8
FFRDC'S ADMINISTERED BY UNIV	722.0	751.1	728.9	760.6	725.3	789.1	935.1	1,061.1	1,313.1	1,311.9	1,488.3
NONPROFIT INST EXCLUDING FFRDC'S	364.2	444.9	458.8	514.9	578.2	672.2	702.3	708.6	800.0	998.2	1,026.5
FFRDC'S ADMIN BY NONPROFIT INST	240.7	247.4	210.2	215.4	183.1	199.3	219.9	231.0	263.9	315.9	368.7
STATE AND LOCAL GOVERNMENTS	102.2	99.6	141.1	206.7	256.8	214.4	227.6	231.2	238.0	268.4	310.1
FOREIGN	51.1	40.2	63.1	59.6	64.4	65.1	61.6	73.1	88.2	123.2	154.7

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

TABLE 41B. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY PERFORMER: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

PERFORMER	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
TOTAL	29,830.4	33,103.9	36,432.6	38,711.5	42,224.9	48,359.6	51,412.4	55,253.1	56,935.1	61,902.0	66,084.0
FEDERAL INTRAMURAL 1/	7,632.3	8,425.7	9,141.0	10,581.9	11,572.3	12,945.4	13,534.9	13,413.1	14,280.9	15,795.1	16,725.7
INDUSTRIAL FIRMS EXCL FFRDC'S	12,969.1	14,867.9	17,192.2	17,019.7	18,610.4	21,704.9	24,201.2	26,768.2	26,719.2	29,042.4	31,329.3
FFRDC'S ADMIN BY INDUST FIRMS	1,408.1	1,413.9	1,506.4	1,501.2	1,608.4	1,790.8	1,697.0	1,860.0	1,911.3	2,008.3	2,071.3
UNIV & COL EXCLUDING FFRDC'S	4,263.4	4,465.8	4,605.5	4,966.4	5,546.9	6,339.7	6,558.8	7,337.3	7,827.7	8,285.9	8,825.7
FFRDC'S ADMINISTERED BY UNIV	1,533.3	1,791.0	1,976.7	2,393.9	2,485.8	2,816.4	2,767.7	3,209.6	3,473.9	3,740.3	4,151.1
NONPROFIT INST EXCLUDING FFRDC'S	1,105.6	1,068.8	1,091.7	1,241.6	1,497.3	1,699.2	1,677.0	1,710.8	1,682.6	1,908.8	1,855.6
FFRDC'S ADMIN BY NONPROFIT INST	441.8	525.2	520.6	581.3	597.1	689.2	551.2	510.6	505.6	592.5	556.0
STATE AND LOCAL GOVERNMENTS	265.5	222.2	184.3	186.0	130.9	129.4	128.4	148.2	142.1	166.7	159.9
FOREIGN	211.2	323.4	214.3	239.5	175.8	244.5	296.3	295.3	391.8	362.1	409.3

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

NOTE: IN 1984 THE CENTER FOR NAVAL ANALYSES WAS RECLASSIFIED FROM AN FFRDC ADMINISTERED BY A UNIVERSITY TO AN FFRDC ADMINISTERED BY A NONPROFIT INSTITUTION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

96 BEST COPY AVAILABLE

TABLE 42A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH BY PERFORMER: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

PERFORMER	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL	1,944.8	1,925.9	1,980.1	2,186.9	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7
FEDERAL INTRAMURAL 1/	531.9	558.4	565.4	596.9	608.1	695.9	733.5	786.0	914.1	1,029.3	1,089.1
INDUSTRIAL FIRMS EXCL FFRDC'S	184.7	185.0	166.6	151.4	176.1	124.0	118.5	131.1	208.1	247.7	277.1
FFRDC'S ADMIN BY INDUST FIRMS	29.8	29.7	29.2	32.2	39.4	31.5	47.9	59.8	53.1	65.4	66.6
UNIV & COL EXCLUDING FFRDC'S	864.3	808.1	879.4	1,021.4	1,048.2	1,144.7	1,260.6	1,341.7	1,555.1	1,769.2	2,079.9
FFRDC'S ADMINISTERED BY UNIV	219.3	237.0	227.7	254.5	229.0	223.1	257.5	284.9	324.1	356.8	393.6
NONPROFIT INST EXCLUDING FFRDC'S	85.5	80.1	85.2	96.4	98.5	127.1	128.2	126.5	162.5	192.8	240.3
FFRDC'S ADMIN BY NONPROFIT INST	3.3	3.5	2.2	7.2	3.4	6.2	13.8	7.9	5.6	5.8	6.7
STATE AND LOCAL GOVERNMENTS	13.3	13.9	16.6	15.6	16.2	16.8	14.0	12.9	15.6	17.1	19.8
FOREIGN	12.6	10.1	7.9	11.2	13.1	18.3	14.3	16.6	20.4	24.6	19.5

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

TABLE 42B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH BY PERFORMER: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

PERFORMER	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
TOTAL	4,674.2	5,041.3	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,464.4	11,200.6
FEDERAL INTRAMURAL 1/	1,182.5	1,301.8	1,465.5	1,689.8	1,861.1	1,923.4	2,018.9	2,046.2	2,050.3	2,332.3	2,373.6
INDUSTRIAL FIRMS EXCL FFRDC'S	325.3	292.9	270.9	292.9	377.9	380.1	511.6	467.0	596.9	787.2	815.0
FFRDC'S ADMIN BY INDUST FIRMS	70.4	73.3	87.4	83.0	91.1	122.6	117.6	119.9	133.0	143.7	149.6
UNIV & COL EXCLUDING FFRDC'S	2,320.3	2,503.2	2,727.1	3,112.3	3,530.8	4,038.7	4,132.1	4,665.6	4,868.3	5,178.2	5,663.2
FFRDC'S ADMINISTERED BY UNIV	436.8	490.6	516.7	604.0	668.9	724.2	724.1	906.7	989.8	1,084.4	1,235.7
NONPROFIT INST EXCLUDING FFRDC'S	279.5	313.1	355.6	409.6	473.6	555.8	572.1	657.7	728.6	825.4	840.5
FFRDC'S ADMIN BY NONPROFIT INST	7.5	8.6	9.0	8.0	8.2	12.4	13.0	13.3	17.7	19.4	26.2
STATE AND LOCAL GOVERNMENTS	23.9	26.5	24.5	32.1	28.1	30.5	30.9	37.5	42.7	47.5	50.0
FOREIGN	28.1	31.2	24.9	28.5	27.7	30.9	32.7	28.5	46.3	46.4	46.8

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

NOTE: IN 1984 THE CENTER FOR NAVAL ANALYSES WAS RECLASSIFIED FROM AN FFRDC ADMINISTERED BY A UNIVERSITY TO AN FFRDC ADMINISTERED BY A NONPROFIT INSTITUTION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 43A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH BY PERFORMER: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

PERFORMER	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL	2,700.1	2,974.9	3,143.0	3,360.8	3,349.4	3,787.6	4,141.3	[illegible],851.9	5,255.5	5,908.2	6,342.3
FEDERAL INTRAMURAL 1/.....	1,113.4	1,345.5	1,322.5	1,387.5	1,480.4	1,574.3	1,730.3	2,093.1	2,043.6	2,191.5	2,392.1
INDUSTRIAL FIRMS EXCL FFRDC'S ...	701.7	691.5	722.4	755.2	711.2	750.7	891.7	971.9	1,159.1	1,403.7	1,484.9
FFRDC'S ADMIN BY INDUST FIRMS ...	40.0	42.8	46.4	43.1	29.3	66.7	87.8	116.7	139.1	169.8	178.3
UNIV & COL EXCLUDING FFRDC'S	457.4	468.4	550.8	621.4	642.9	813.5	818.2	908.0	1,028.4	1,168.8	1,253.5
FFRDC'S ADMINISTERED BY UNIV	116.2	145.6	131.2	144.0	126.2	150.9	168.0	263.4	346.2	358.1	407.0
NONPROFIT INST EXCLUDING FFRDC'S	136.2	150.3	196.9	245.5	217.7	287.1	266.4	308.9	349.6	398.1	382.3
FFRDC'S ADMIN BY NONPROFIT INST .	44.2	41.6	49.8	52.6	46.8	44.6	51.0	49.6	49.9	61.2	66.7
STATE AND LOCAL GOVERNMENTS	61.8	69.5	79.2	78.2	68.1	74.2	97.9	106.5	99.6	111.8	119.7
FOREIGN	29.0	19.8	43.7	33.3	26.9	25.7	30.0	33.8	39.9	45.3	57.9

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

TABLE 43B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH BY PERFORMER: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

PERFORMER	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
TOTAL	6,923.2	7,171.5	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,997.9	9,176.4	9,951.0	9,890.8
FEDERAL INTRAMURAL 1/.....	2,483.8	2,732.4	2,728.7	3,020.4	2,903.6	3,132.7	3,141.5	3,391.5	3,288.1	3,558.2	3,552.0
INDUSTRIAL FIRMS EXCL FFRDC'S ...	1,752.3	1,665.4	1,885.7	1,821.3	1,759.5	1,694.3	1,768.8	1,981.6	2,045.6	2,328.5	2,245.3
FFRDC'S ADMIN BY INDUST FIRMS ...	240.7	278.1	400.0	439.7	405.4	363.3	364.5	313.6	322.2	324.2	289.8
UNIV & COL EXCLUDING FFRDC'S	1,378.8	1,416.9	1,318.3	1,355.6	1,498.9	1,687.6	1,751.4	1,974.6	2,154.6	2,306.9	2,384.8
FFRDC'S ADMINISTERED BY UNIV	414.3	450.0	540.0	646.1	667.0	697.1	567.6	564.3	575.0	602.9	610.5
NONPROFIT INST EXCLUDING FFRDC'S	398.9	392.1	387.9	427.3	449.0	489.3	490.8	549.6	571.2	617.3	585.9
FFRDC'S ADMIN BY NONPROFIT INST .	64.2	59.1	95.2	77.1	79.1	84.6	74.9	76.5	65.2	74.7	75.4
STATE AND LOCAL GOVERNMENTS	127.1	102.8	101.4	104.7	60.0	58.9	60.0	52.7	60.4	68.2	59.2
FOREIGN	63.0	74.8	83.4	101.1	88.8	107.0	129.7	93.4	94.1	70.2	87.9

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

NOTE: IN 1984 THE CENTER FOR NAVAL ANALYSES WAS RECLASSIFIED FROM AN FFRDC ADMINISTERED BY A UNIVERSITY TO AN FFRDC ADMINISTERED BY A NONPROFIT INSTITUTION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 44A. FEDERAL OBLIGATIONS FOR DEVELOPMENT BY PERFORMER: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

PERFORMER	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL	10,996.0	10,438.1	10,419.3	10,948.2	11,218.7	11,234.9	12,309.1	13,160.3	14,936.3	16,238.4	17,610.1
FEDERAL INTRAMURAL 1/	1,855.9	2,175.4	2,340.4	2,604.8	2,673.7	2,640.7	2,890.2	2,889.6	3,054.0	3,589.7	3,936.3
INDUSTRIAL FIRMS EXCL FFRDC'S	7,816.7	6,893.7	6,698.5	6,809.5	6,844.0	6,877.7	7,413.0	8,237.3	9,350.0	9,748.6	10,410.5
FFRDC'S ADMIN BY INDUST FIRMS	357.2	358.2	404.5	454.6	513.6	494.6	568.0	637.3	920.6	1,007.3	1,073.1
UNIV & COL EXCLUDING FFRDC'S	207.4	199.1	214.4	260.7	225.5	255.7	332.7	302.1	322.0	446.6	555.5
FFRDC'S ADMINISTERED BY UNIV	386.5	368.6	370.0	362.1	370.1	415.2	509.6	512.8	642.8	597.1	687.7
NONPROFIT INST EXCLUDING FFRDC'S	142.6	214.4	176.8	172.9	262.0	258.1	307.7	273.1	287.9	407.3	403.8
FFRDC'S ADMIN BY NONPROFIT INST	193.1	202.3	158.2	155.6	132.8	148.6	155.1	173.5	208.3	249.0	295.4
STATE AND LOCAL GOVERNMENTS	27.0	16.2	45.2	112.9	172.6	123.3	115.7	111.8	122.9	139.6	170.7
FOREIGN	9.4	10.3	11.4	15.1	24.4	21.0	17.3	22.7	27.9	53.2	77.3

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

TABLE 44B. FEDERAL OBLIGATIONS FOR DEVELOPMENT BY PERFORMER: FISCAL YEARS 1980-90

(MILLIONS OF DOLLARS)

PERFORMER	1980	1981	1982	1983	1984	1985	1986	1987	1988	ESTIMATES 1989	ESTIMATES 1990
TOTAL	18,233.1	20,891.1	23,410.4	24,458.0	27,246.1	32,226.1	34,910.2	37,312.7	38,285.1	41,486.6	44,992.6
FEDERAL INTRAMURAL 1/	3,966.1	4,391.5	4,946.8	5,871.7	6,807.6	7,889.3	8,374.6	7,975.3	8,942.5	9,904.7	10,800.1
INDUSTRIAL FIRMS EXCL FFRDC'S	10,891.5	12,909.6	15,035.6	14,905.5	16,472.9	19,630.5	21,920.7	24,319.6	24,076.7	25,926.7	28,269.0
FFRDC'S ADMIN BY INDUST FIRMS	1,097.0	1,062.6	1,019.1	978.5	1,112.0	1,304.9	1,215.0	1,426.4	1,456.1	1,540.4	1,631.9
UNIV & COL EXCLUDING FFRDC'S	564.4	545.6	560.0	498.5	517.2	613.5	675.4	697.0	804.8	800.9	777.7
FFRDC'S ADMINISTERED BY UNIV	682.2	850.4	920.0	1,143.8	1,149.9	1,395.1	1,476.0	1,738.6	1,909.1	2,053.0	2,304.9
NONPROFIT INST EXCLUDING FFRDC'S	427.1	363.6	348.1	404.7	574.6	654.1	614.1	503.4	382.8	466.1	429.2
FFRDC'S ADMIN BY NONPROFIT INST	370.1	457.5	416.4	496.1	509.8	592.2	463.3	420.8	422.7	498.4	454.5
STATE AND LOCAL GOVERNMENTS	114.6	92.9	58.4	49.3	42.8	39.9	37.4	58.0	39.0	51.0	50.8
FOREIGN	120.1	217.5	106.0	109.9	59.2	106.7	133.9	173.4	251.4	245.5	274.6

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

NOTE: IN 1984 THE CENTER FOR NAVAL ANALYSES WAS RECLASSIFIED FROM AN FFRDC ADMINISTERED BY A UNIVERSITY TO AN FFRDC ADMINISTERED BY A NONPROFIT INSTITUTION.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

TABLE 45. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEARS 1978-88

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	25,077.7	27,084.2	28,627.3	31,929.6	35,361.6	37,627.8	41,148.5	47,214.8	50,310.2	54,066.8	55,636.6
NEW ENGLAND	2,227.1	2,658.6	2,780.7	3,172.5	3,567.3	3,699.9	4,052.7	4,557.0	4,423.0	5,250.2	3,813.7
CONNECTICUT	299.8	328.4	470.3	485.0	439.6	743.3	675.9	742.8	577.3	672.2	619.5
MAINE	25.4	23.1	25.9	24.4	23.9	29.3	38.1	36.7	35.6	178.6	39.8
MASSACHUSETTS	1,689.3	2,055.6	2,047.7	2,407.1	2,775.2	2,559.3	2,882.6	3,276.7	3,240.3	3,910.8	2,702.0
NEW HAMPSHIRE	68.7	94.1	50.2	54.8	50.8	76.8	116.4	130.3	136.0	83.6	60.8
RHODE ISLAND	120.3	140.7	149.9	182.5	242.1	267.5	306.1	334.3	392.7	365.4	335.6
VERMONT	23.7	16.7	36.6	18.7	35.7	23.7	33.8	36.1	41.1	39.6	55.9
MIDDLE ATLANTIC	2,802.2	3,111.4	3,257.6	3,416.0	3,711.9	4,990.0	5,185.5	6,249.9	6,246.2	5,738.6	5,629.6
NEW JERSEY	522.5	649.3	729.4	775.4	887.9	1,293.4	1,550.0	1,791.8	1,781.4	1,114.9	1,209.3
NEW YORK	1,284.1	1,362.2	1,468.8	1,557.7	1,692.5	2,523.2	2,493.4	3,128.4	3,163.5	2,941.8	2,688.7
PENNSYLVANIA	995.7	1,099.9	1,059.4	1,082.9	1,131.5	1,173.3	1,142.2	1,329.6	1,301.3	1,681.9	1,731.6
EAST NORTH CENTRAL	2,010.4	2,097.8	2,316.2	2,349.3	2,260.1	2,505.9	2,923.5	3,223.9	3,274.2	3,697.8	3,668.7
ILLINOIS	564.3	547.2	599.9	572.6	543.0	567.5	675.6	772.8	745.0	827.3	850.7
INDIANA	108.1	122.0	162.4	170.1	186.2	213.6	236.0	227.7	295.1	339.4	312.1
MICHIGAN	367.8	264.4	377.5	357.2	376.7	412.5	479.4	502.1	460.5	463.3	417.5
OHIO	858.3	1,053.2	1,054.7	1,117.2	1,024.8	1,170.1	1,366.5	1,520.5	1,591.7	1,862.9	1,865.2
WISCONSIN	111.9	111.0	121.7	132.2	129.4	142.4	166.0	200.8	181.9	204.8	223.2
WEST NORTH CENTRAL	1,250.7	1,277.8	1,618.5	1,829.6	2,151.3	1,299.6	1,617.4	1,783.0	1,613.0	1,468.9	1,637.6
IOWA	68.3	84.9	121.7	147.4	136.3	95.2	134.5	150.3	224.3	162.4	197.1
KANSAS	106.6	136.3	353.6	471.0	637.7	97.4	101.9	138.1	112.7	94.2	126.7
MINNESOTA	177.7	202.8	261.6	309.0	378.6	448.2	636.8	718.7	515.4	506.6	576.8
MISSOURI	827.3	778.9	801.6	820.4	911.3	576.8	659.5	694.2	677.8	614.7	637.6
NEBRASKA	33.5	31.3	31.6	31.7	32.0	42.3	33.0	34.6	41.1	48.9	52.1
NORTH DAKOTA	28.3	33.4	38.7	40.1	36.5	27.2	37.8	32.7	27.2	29.4	32.5
SOUTH DAKOTA	9.1	10.2	9.9	10.2	19.0	12.4	14.0	14.4	14.6	12.8	14.7
SOUTH ATLANTIC	5,179.2	5,567.6	6,109.8	6,674.3	7,563.6	8,927.8	9,979.7	11,125.6	12,084.2	12,042.4	13,414.3
DELAWARE	11.1	14.4	20.8	25.9	34.6	20.4	63.7	34.7	30.2	32.3	36.0
DISTRICT OF COLUMBIA	790.2	768.4	807.0	921.0	954.6	1,196.1	1,796.0	2,077.7	2,324.0	2,208.5	2,924.6
FLORIDA	890.1	913.1	1,120.8	1,373.7	1,776.4	1,276.0	1,138.1	1,205.2	1,448.0	2,297.3	2,133.4
GEORGIA	155.7	184.4	169.8	195.0	217.3	237.2	245.5	291.8	250.5	352.1	350.4
MARYLAND	2,091.0	2,299.8	2,465.0	2,585.1	2,850.2	3,412.4	3,917.9	4,371.6	4,512.5	4,036.3	4,355.3
NORTH CAROLINA	192.3	220.9	227.7	259.8	272.7	312.5	378.3	485.7	497.7	583.8	625.0
SOUTH CAROLINA	118.3	114.3	87.5	96.1	98.7	104.6	119.8	119.9	122.5	123.7	147.1
VIRGINIA	857.1	945.1	1,059.3	1,066.4	1,268.1	2,286.1	2,247.2	2,472.4	2,810.0	2,292.5	2,729.1
WEST VIRGINIA	73.3	107.2	152.0	151.2	91.0	82.5	73.3	66.5	88.7	115.8	113.4
EAST SOUTH CENTRAL	1,225.5	1,304.6	1,395.8	1,603.7	1,486.7	1,386.0	1,541.3	1,694.6	1,981.9	2,324.8	2,184.4
ALABAMA	432.0	516.9	455.7	493.5	561.5	671.7	792.6	896.6	1,188.2	1,346.4	1,363.7
KENTUCKY	62.1	43.0	107.9	101.0	97.2	93.1	56.5	69.2	59.1	61.9	68.5
MISSISSIPPI	87.1	100.7	109.3	125.5	125.7	185.8	145.5	172.4	143.4	184.4	185.1
TENNESSEE	644.3	644.1	722.9	883.6	702.3	435.5	546.7	556.3	591.3	732.0	567.2
WEST SOUTH CENTRAL	1,313.9	1,316.6	1,229.3	1,477.1	1,400.1	1,698.4	1,704.0	1,904.4	2,114.6	2,520.4	2,942.6
ARKANSAS	42.4	37.3	30.0	31.2	43.5	31.4	35.0	39.7	40.5	52.3	222.7
LOUISIANA	162.7	209.1	196.3	331.8	236.8	186.6	129.7	118.8	92.4	107.4	101.3
OKLAHOMA	105.0	70.1	94.5	82.4	65.6	67.9	65.5	81.3	69.8	99.4	103.7
TEXAS	1,003.8	1,000.1	908.6	1,031.7	1,054.3	1,412.6	1,473.8	1,664.6	1,912.0	2,261.3	2,514.9
MOUNTAIN	2,077.9	2,262.7	2,568.2	3,016.4	3,002.8	3,913.1	3,949.0	4,508.2	5,579.1	5,104.9	5,293.9
ARIZONA	163.4	201.4	334.6	367.7	264.5	469.3	383.9	458.2	398.1	414.9	369.4
COLORADO	393.2	442.2	573.7	632.8	556.6	436.2	531.6	629.2	1,636.4	1,516.3	1,408.4
IDAHO	107.0	147.1	147.7	119.5	127.0	223.4	195.2	259.7	266.6	232.7	250.1
MONTANA	27.5	41.6	45.7	45.4	42.7	35.0	26.6	26.0	26.4	30.1	35.5
NEVADA	196.7	222.1	214.5	263.0	376.3	647.1	440.5	490.4	462.6	462.0	443.3
NEW MEXICO	987.4	955.5	954.2	1,224.1	1,322.6	1,804.9	2,104.8	2,368.6	2,500.0	1,998.2	2,296.1
UTAH	161.8	211.6	243.9	305.7	287.9	268.9	232.4	250.9	274.6	427.3	462.0
WYOMING	40.8	41.0	53.9	58.2	25.4	28.4	34.0	25.1	14.5	23.5	29.0
PACIFIC	6,906.2	7,390.2	7,232.4	8,304.6	10,118.0	9,124.0	10,115.9	12,069.6	12,898.0	15,797.7	16,964.5
ALASKA	48.7	45.9	42.5	51.8	40.0	40.4	47.7	51.5	49.4	48.8	50.5
CALIFORNIA	5,839.2	6,338.6	6,097.7	7,049.7	8,888.3	8,194.9	8,995.8	10,771.8	11,512.3	13,672.2	14,895.9
HAWAII	44.6	40.8	42.6	49.9	44.5	71.4	52.9	58.2	54.7	63.9	82.2
OREGON	95.3	100.1	97.9	105.6	106.3	108.0	137.8	151.6	127.6	133.9	170.3
WASHINGTON	878.3	864.7	951.8	1,047.5	1,038.9	709.3	881.8	1,036.5	1,153.9	1,878.8	1,765.6
OUTLYING AREAS	38.7	39.4	45.3	38.9	40.7	32.0	44.9	62.8	36.8	42.9	33.0
OFFICES ABROAD	45.9	57.7	73.5	47.2	59.0	51.0	34.6	35.9	59.2	78.2	54.2

NOTE: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D OBLIGATIONS IN THAT YEAR.

(2) ALTHOUGH THE NON-GEOGRAPHIC HISTORICAL TABLES INCORPORATE CORRECTIONS TO PREVIOUSLY REPORTED DATA THAT HAVE BEEN SUBMITTED BY THE REPORTING AGENCIES, CORRESPONDING CORRECTIONS TO THE GEOGRAPHIC DISTRIBUTIONS ARE RARELY OBTAINABLE.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

100 BEST COPY AVAILABLE

TABLE 46. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEARS 1978-88

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL	1,262.0	1,393.8	1,533.1	1,454.4	1,380.1	1,280.9	1,770.6	1,774.7	1,482.5	2,066.5	2,025.1
NEW ENGLAND	34.9	58.2	24.1	54.2	50.6	37.5	68.8	106.5	24.8	45.1	105.6
CONNECTICUT	2.3	12.3	1.0	9.2	25.1	5.5	5.2	8.4	1.2	.4	1.0
MAINE	.1	.1	*	*	*	*	*	*	*	*	.3
MASSACHUSETTS	28.7	36.9	20.4	35.7	23.3	29.4	62.8	66.1	17.7	37.0	94.2
NEW HAMPSHIRE	1.3	5.4	*	7.7	.1	.7	.1	.4	.3	.2	*
RHODE ISLAND	2.4	3.5	2.6	1.6	2.1	1.9	.7	31.6	5.5	6.4	2.0
VERMONT	-	*	-	*	-	-	-	-	-	1.0	8.0
MIDDLE ATLANTIC	189.3	180.7	197.4	236.1	173.1	138.2	247.8	134.2	161.7	195.6	224.2
NEW JERSEY	96.7	64.8	60.5	55.7	57.0	42.0	52.7	40.1	37.6	39.8	52.6
NEW YORK	63.8	69.4	91.4	85.1	65.0	77.0	175.0	75.3	105.0	114.1	115.3
PENNSYLVANIA	28.8	46.5	35.5	95.2	51.1	19.2	20.1	18.7	19.0	41.7	56.3
EAST NORTH CENTRAL	108.7	96.4	123.3	152.6	107.4	92.2	150.2	171.9	120.3	197.4	153.5
ILLINOIS	72.9	61.9	71.5	74.1	74.3	80.3	81.2	110.1	96.6	94.3	76.7
INDIANA	.4	.7	[illegible]	.9	.6	1.3	2.8	4.5	.5	5.8	1.9
MICHIGAN	1.9	3.0	8.3	9.5	7.8	1.1	6.4	5.1	1.2	1.4	4.4
OHIO	23.9	28.0	40.3	65.2	23.7	7.5	49.6	46.5	19.2	92.0	68.5
WISCONSIN	9.6	2.9	2.5	3.0	1.0	1.9	10.2	5.6	2.7	4.0	2.0
WEST NORTH CENTRAL	7.6	12.4	53.5	7.1	11.2	11.4	12.5	10.0	66.2	82.5	21.2
IOWA	2.3	2.2	2.9	2.1	2.2	2.7	3.5	1.4	3.3	22.7	3.8
KANSAS	.2	*	.1	.1	.1	.2	.3	2.3	41.0	49.8	.1
MINNESOTA	1.2	.8	.3	.5	.4	.8	3.1	.8	1.1	.4	.7
MISSOURI	1.2	5.6	40.9	1.8	5.7	6.0	3.9	3.7	4.7	7.4	2.7
NEBRASKA	.3	.8	2.1	.6	.7	.5	.7	.4	7.3	1.4	4.1
NORTH DAKOTA	2.3	1.4	4.1	1.4	1.2	.9	.9	1.3	8.8	.8	9.2
SOUTH DAKOTA	.1	1.6	3.1	.7	.9	.2	.1	.1	*	.1	.6
SOUTH ATLANTIC	233.4	202.0	181.2	170.3	237.9	251.6	544.9	339.8	239.4	465.1	322.6
DELAWARE	*	-	.7	1.6	.1	.4	.6	.4	.4	.4	1.3
DISTRICT OF COLUMBIA	11.1	22.0	14.3	31.7	33.6	24.6	62.4	92.5	28.0	24.3	15.4
FLORIDA	81.1	46.0	46.7	25.5	31.8	37.2	91.2	42.8	53.2	97.4	86.0
GEORGIA	1.8	1.0	.6	1.6	1.5	2.1	3.8	2.6	15.6	23.1	2.7
MARYLAND	82.7	64.3	53.3	52.3	82.2	80.8	180.1	145.4	78.6	141.4	79.2
NORTH CAROLINA	3.5	3.9	8.2	1.2	1.4	4.1	3.6	10.4	2.2	3.4	.9
SOUTH CAROLINA	6.9	9.7	3.1	18.8	65.2	49.6	146.4	7.5	5.7	19.6	8.2
VIRGINIA	29.3	42.0	41.5	33.9	21.1	29.4	52.2	26.7	45.5	138.9	105.5
WEST VIRGINIA	17.0	13.1	12.9	3.7	1.1	23.3	4.8	11.4	10.2	16.5	23.2
EAST SOUTH CENTRAL	55.9	65.1	134.7	109.6	78.4	40.1	110.4	88.1	85.8	150.3	128.2
ALABAMA	6.5	2.6	47.9	16.5	5.8	6.0	26.4	41.4	41.2	61.4	51.8
KENTUCKY	*	2.9	*	4.3	1.4	.4	.3	.3	.3	1.7	.1
MISSISSIPPI	6.0	3.8	6.6	3.4	5.9	6.4	13.7	12.6	13.5	57.9	19.1
TENNESSEE	43.4	55.8	80.1	85.5	65.2	27.3	69.9	33.8	30.8	29.4	57.2
WEST SOUTH CENTRAL	34.6	27.3	30.8	31.3	34.7	9.9	13.6	23.6	85.0	98.5	83.7
ARKANSAS	.9	.2	.7	.7	1.0	1.5	.5	.5	.9	.5	.4
LOUISIANA	20.9	16.7	12.6	14.1	22.2	2.4	2.6	2.0	2.2	3.3	31.9
OKLAHOMA	1.0	.6	3.2	2.7	1.2	1.3	.9	1.7	2.3	.9	10.7
TEXAS	11.8	9.7	14.2	13.9	10.2	4.7	9.6	19.4	79.7	93.8	40.7
MOUNTAIN	210.2	254.9	284.3	244.9	269.4	294.5	281.0	445.1	318.6	444.4	456.6
ARIZONA	33.9	35.3	1.8	.4	.4	5.4	3.6	2.9	1.7	19.6	21.8
COLORADO	11.6	9.7	35.6	26.9	16.6	43.9	52.3	32.4	16.3	16.4	53.5
IDAHO	35.6	41.8	45.1	11.9	21.4	19.7	11.9	8.3	24.7	17.8	39.6
MONTANA	*	1.2	3.7	.1	.1	.2	.2	.2	.2	.2	.2
NEVADA	18.5	24.2	22.4	82.9	30.0	33.0	108.4	155.2	69.9	87.0	103.3
NEW MEXICO	101.7	138.6	169.5	119.3	196.6	191.8	102.3	243.7	192.0	288.8	231.4
UTAH	8.0	2.9	1.9	1.5	3.1	.5	2.0	2.4	13.6	14.2	6.8
WYOMING	.9	1.2	4.3	2.0	1.2	.1	.3	.1	.1	.3	.2
PACIFIC	381.9	489.2	509.8	446.2	415.5	403.6	334.5	451.8	362.5	367.4	482.1
ALASKA	.7	.8	.1	*	*	21.3	.1	12.9	-	-	6.4
CALIFORNIA	259.5	400.2	377.4	355.4	334.6	368.4	316.8	404.2	323.5	315.3	429.0
HAWAII	.7	.5	.2	.7	.1	1.6	.6	.9	.6	.6	6.9
OREGON	2.6	.9	3.9	1.0	.1	.2	3.4	1.2	12.0	24.9	8.6
WASHINGTON	118.3	86.8	128.2	89.0	80.8	12.0	13.6	32.7	26.4	26.6	31.2
OUTLYING AREAS	1.7	.5	2.9	.7	.5	.2	3.3	1.4	13.9	18.2	46.5
OFFICES ABROAD	3.9	7.1	1.1	1.3	1.4	1.7	3.5	2.3	4.5	2.0	.9

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D OBLIGATIONS IN THAT YEAR.

(2) ALTHOUGH THE NON-GEOGRAPHIC HISTORICAL TABLES INCORPORATE CORRECTIONS TO PREVIOUSLY REPORTED DATA THAT HAVE BEEN SUBMITTED BY THE REPORTING AGENCIES, CORRESPONDING CORRECTIONS TO THE GEOGRAPHIC DISTRIBUTIONS ARE RARELY OBTAINABLE.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

BEST COPY AVAILABLE

section d

cross-reference guide to detailed statistical tables

The following is a complete list of the "C-series" detailed statistical tables available at NSF from the Federal Funds XXXVIII survey. The table numbers of this Volume that correspond to those of the C-series are listed below in the right-hand column.

Table reference no.		Table nos. used in this Vol.
Research, Development, and R&D Plant		
C-1.	Overall summary: fiscal years 1988, 1989, and 1990	1
C-2.	By agency: fiscal years 1988, 1989, and 1990	2
Research and Development—Agency, Character of Work, and Performer		
C-3.	By agency: fiscal years 1988, 1989, and 1990	3
C-4.	By agency and character of work: fiscal year 1988	4
C-5.	By agency and character of work: fiscal year 1989 (est.)	5
C-6.	By agency and character of work: fiscal year 1990 (est.)	6
C-7.	By agency and performer: fiscal year 1988	7
C-8.	By agency and performer: fiscal year 1989 (est.)	8
C-9.	By agency and performer: fiscal year 1990 (est.)	9
C-10.	Federal obligations for research, development, and R&D plant to federally funded research and development centers, by agency: fiscal year 1988	
C-11.	Federal obligations for research, development, and R&D plant to federally funded research and development centers, by agency: fiscal year 1989 (est.)	
C-12.	Federal obligations for research, development, and R&D plant to federally funded research and development centers, by agency: fiscal year 1990 (est.)	
C-13.	Federal obligations for research and development to federally funded research and development centers (FFRDCs) by individual FFRDC and agency: fiscal year 1988	10
C-14.	Federal obligations for R&D plant to federally funded research and development centers (FFRDCs) by individual FFRDC and agency: fiscal year 1988	11
Total Research—Agency, Performer, and Field of Science/Engineering		
C-15.	By agency and performer: fiscal year 1988	
C-16.	By agency and performer: fiscal year 1989 (est.)	
C-17.	By agency and performer: fiscal year 1990 (est.)	
C-18.	By detailed field of science/engineering: fiscal years 1988, 1989, and 1990	

Table reference no.		Table nos. used in this Vol.
C-19.	By agency and field of science/engineering: fiscal year 1988	
C-20.	By agency and field of science/engineering: fiscal year 1989 (est.)	
C-21.	By agency and field of science/engineering: fiscal year 1990 (est.)	
C-22.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-23.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-24.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-25.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-26.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-27.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-28.	Engineering, by agency and detailed field of science/engineering: fiscal year 1988	
C-29.	Engineering, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-30.	Engineering, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-31.	Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-32.	Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-33.	Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	

Basic Research--Agency, Performer, and Field of Science/Engineering

Table reference no.		Table nos. used in this Vol.
C-34.	By agency and performer: fiscal year 1988	12
C-35.	By agency and performer: fiscal year 1989 (est.) ...	13
C-36.	By agency and performer: fiscal year 1990 (est.) ...	14
C-37.	By detailed field of science/engineering: fiscal years 1988, 1989, and 1990 ...	15
C-38.	By agency and field of science/engineering: fiscal year 1988	16
C-39.	By agency and field of science/engineering: fiscal year 1989 (est.)	17
C-40.	By agency and field of science/engineering: fiscal year 1990 (est.)	18
C-41.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-42.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-43.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-44.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-45.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-46.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-47.	Engineering, by agency and detailed field of science/engineering: fiscal year 1988	
C-48.	Engineering, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-49.	Engineering, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-50.	Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-51.	Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-52.	Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	

Applied Research—Agency, Performer, and Field of Science/Engineering

Table reference no.		Table nos. used in this Vol.
C-53.	By agency and performer: fiscal year 1988	19

Table reference no.		Table nos. used in this Vol.
C-54.	By agency and performer: fiscal year 1989 (est.) ...	20
C-55.	By agency and performer: fiscal year 1990 (est.) ...	21
C-56.	By detailed field of science/engineering: fiscal years 1988, 1989, and 1990 ...	22
C-57.	By agency and field of science/engineering: fiscal year 1988	23
C-58.	By agency and field of science/engineering: fiscal year 1989 (est.)	24
C-59.	By agency and field of science/engineering: fiscal year 1990 (est.)	25
C-60.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-61.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-62.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-63.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-64.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-65.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-66.	Engineering, by agency and detailed field of science/engineering: fiscal year 1988	
C-67.	Engineering, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-68.	Engineering, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-69.	Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-70.	Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-71.	Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	

Development—Agency and Performer

C-72.	By agency and performer: fiscal year 1988	26
C-73.	By agency and performer: fiscal year 1989 (est.) ...	27
C-74.	By agency and performer: fiscal year 1990 (est.) ...	28

R&D Plant—Agency and Performer

C-75.	By agency: fiscal years 1988, 1989, and 1990 ...	29
C-76.	By agency and performer of the R&D the plant supports: fiscal year 1988 ..	30
C-77.	By agency and performer of the R&D the plant supports: fiscal year 1989 (est.)	31
C-78.	By agency and performer of the R&D the plant supports: fiscal year 1990 (est.)	32

Total Research Performed at Universities and Colleges—Agency and Field of Science/Engineering

C-79.	By detailed field of science/engineering: fiscal years 1988, 1989, and 1990	
C-80.	By agency and field of science/engineering: fiscal year 1988	
C-81.	By agency and field of science/engineering: fiscal year 1989 (est.)	
C-82.	By agency and field of science/engineering: fiscal year 1990 (est.)	
C-83.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-84.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-85.	Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-86	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1988	
C-87.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)	
C-88.	Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)	
C-89.	Engineering, by agency and detailed field of sci-	

Table reference no.	Table nos. used in this Vol.

ence/engineering: fiscal year 1988

C-90. Engineering, by agency and detailed field of science/engineering: fiscal year 1989 (est.)

C-91. Engineering, by agency and detailed field of science/engineering: fiscal year 1990 (est.)

C-92. Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1988

C-93. Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)

C-94. Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)

Basic Research Performed at Universities and Colleges—Agency and Field of Science/Engineering

C-95. By detailed field of science/engineering: fiscal years 1988, 1989, and 1990

C-96. By agency and field of science/engineering: fiscal year 1988

C-97. By agency and field of science/engineering: fiscal year 1989 (est.)

C-98. By agency and field of science/engineering: fiscal year 1990 (est.)

C-99. Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1988

C-100. Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)

C-101. Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)

C-102. Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1988

C-103. Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)

C-104. Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)

C-105. Engineering, by agency and detailed field of science/engineering: fiscal year 1988

C-106. Engineering, by agency and detailed field of science/engineering: fiscal year 1989 (est.)

C-107. Engineering, by agency and detailed field of science/engineering: fiscal year 1990 (est.)

C-108. Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1988

C-109. Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)

C-110. Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)

Applied Research Performed at Universities and Colleges—Agency and Field of Science/Engineering

C-111. By detailed field of science/engineering: fiscal years 1988, 1989, and 1990

C-112. By agency and field of science/engineering: fiscal year 1988

C-113. By agency and field of science/engineering: fiscal year 1989 (est.)

C-114. By agency and field of science/engineering: fiscal year 1990 (est.)

C-115. Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1988

C-116. Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)

C-117. Psychology and life sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)

C-118. Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1988

C-119. Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)

C-120. Physical and environmental sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)

Table reference no. | Table nos. used in this Vol.

C-121. Engineering, by agency and detailed field of science/engineering: fiscal year 1988

C-122. Engineering, by agency and detailed field of science/engineering: fiscal year 1989 (est.)

C-123. Engineering, by agency and detailed field of science/engineering: fiscal year 1990 (est.)

C-124. Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1988

C-125. Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1989 (est.)

C-126. Mathematics and computer sciences and social sciences, by agency and detailed field of science/engineering: fiscal year 1990 (est.)

Foreign Performers—Research and Development

C-127. By region, country, and agency: fiscal year 1988

Foreign Performers—Basic Research

C-128. By region, country, and agency: fiscal year 1988

Special Foreign Currency Program

C-129. For research and development, by agency: fiscal years 1988, 1989, and 1990

C-130. For basic research, by agency: fiscal years 1988, 1989, and 1990

C-131. For applied research, by agency: fiscal years 1988, 1989, and 1990

C-132. For development, by agency: fiscal years 1988, 1989, and 1990

Geographic Distribution—Research and Development and R&D Plant

C-133. Research, development, and R&D plant, by geographic division and State: fiscal year 1988

C-134. Research and development, by State and performer: fiscal year 1988 33

C-134A. Percent distribution to each performer, by State: fiscal year 1988

C-134B. Percent distribution to each State, by performer: fiscal year 1988

C-135. Research and development, by State and agency: fiscal year 1988 34

C-135A. Percent distribution of each agency, by State: fiscal year 1988

C-135B. Percent distribution of each State, by agency: fiscal year 1988

C-136. Research and development, by geographic division, State, agency, and performer: fiscal year 1988

C-137. R&D plant, by geographic division, State, and performer supported: fiscal year 1988

C-138. R&D plant, by geographic division, State, and agency: fiscal year 1988

Federal Intramural Personnel Costs

C-139. Total research and development, by agency: fiscal years 1988, 1989, and 1990

C-140. Basic research, by agency: fiscal years 1988, 1989, and 1990

C-141. Applied research, by agency: fiscal years 1988, 1989, and 1990

C-142. Development, by agency: fiscal years 1988, 1989, and 1990

Historical Data

Outlays

C-143A. Research, development, and R&D plant, by agency: fiscal years 1969–79

C-143B. Research, development, and R&D plant, by agency: fiscal years 1980–90

C-144A. Research and development, by agency: fiscal years 1969–79

C-144B. Research and development, by agency: fiscal years 1980–90

C-145A. R&D plant, by agency: fiscal years 1969–79

C-145B. R&D plant, by agency: fiscal years 1980–90

Obligations

C-146A. Research, development, and R&D plant, by agency: fiscal years 1969–79 ..... 35A

C-146B. Research, development, and R&D plant, by agency: fiscal years 1980–90 ..... 35B

C-147A. Research and development, by agency: fiscal years 1969–79 ..... 36A

C-147B. Research and development, by agency: fiscal years 1980–90 ..... 36B

C-148A. R&D plant, by agency: fiscal years 1969–79

C-148B. R&D plant, by agency: fiscal years 1980–90

C-149. Research and development, by character of

Table reference no.		Table nos. used in this Vol.
	work and R&D plant: fiscal years 1969–90	37
C-150A.	Total research, by selected agency: fiscal years 1969–79	
C-150B.	Total research, by selected agency: fiscal years 1980–90	
C-151A.	Basic research, by selected agency: fiscal years 1969–79	38A
C-151B.	Basic research, by selected agency: fiscal years 1980–90	38B
C-152A.	Applied research, by selected agency: fiscal years 1969–79	39A
C-152B.	Applied research, by selected agency: fiscal years 1980–90	39B
C-153A.	Development, by selected agency: fiscal years 1969–79	40A
C-153B.	Development, by selected agency: fiscal years 1980–90	40B
C-154A.	Research and development, by performer: fiscal years 1969–79	41A
C-154B.	Research and development, by performer: fiscal years 1980–90	41B
C-155A.	Total research, by performer: fiscal years 1969–79	
C-155B.	Total research, by performer: fiscal years 1980–90	
C-156A.	Basic research, by performer: fiscal years 1969–79	42A
C-156B.	Basic research, by performer: fiscal years 1980–90	42B
C-157A.	Applied research, by performer: fiscal years 1969–79	43A
C-157B.	Applied research, by performer: fiscal years 1980–90	43B
C-158A.	Development, by performer: fiscal years 1969–79	44A
C-158B.	Development, by performer: fiscal years 1980–90	44B
C-159A.	Total research, by field of science/engineering: fiscal years 1969–79	
C-159B.	Total research, by field of science/engineering: fiscal years 1980–90	
C-160A.	Basic research, by field of science/engineering: fiscal years 1969–79	
C-160B.	Basic research, by field of science/engineering: fiscal years 1980–90	
C-161A.	Applied research, by field of science/engineering: fiscal years 1969–79	
C-161B.	Applied research, by field of science/engineering: fiscal years 1980–90	
C-162.	Research and development, by geographic division and State: fiscal years 1978–88	45
C-163.	R&D plant, by geographic division and State: fiscal years 1978–88	46

Please contact Margaret Meredith, Science Resources Analyst, Government Studies Group, at (202) 634-4636 for further information or to obtain the following sets of R&D funding data:

1. Federal obligations for research by field of science
2. Federal obligations for research to universities and colleges by field of science
3. R&D funding by State and geographic region
4. Federally Funded Research and Development Centers
5. Detailed Historical Tables